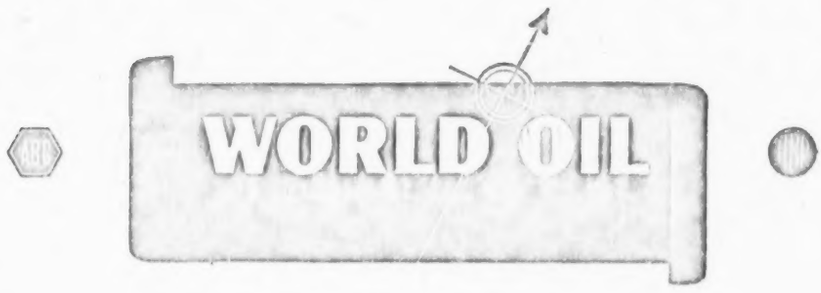

Exploration • Drilling • Producing
Economics • Human Relations

Published monthly except semi-monthly in February and August
by The Gulf Publishing Company, Box 2608, Houston 1, Texas.

ANNUAL EDITORIAL INDEX

January-December, 1956
Volume 142, No. 1, through Volume 143, No. 7

Index of Special Issues.....Page 2
Index by Authors.....Page 2
Index by Subjects.....Page 5

INDEX OF SPECIAL ISSUES

Issue	Date
Forecast-Review	Feb. 15
Exploration Progress	April
Gulf Coast	June
International Outlook	Aug. 15
Drilling Progress	Oct.

INDEX BY AUTHORS

Author	Article or Item	Issue	Page
A			
Allen, Edwin R. (and Shend, W. C.)	Is a Salt Dome's North Flank Its Best?	April	158
Allen, G. G. (Gray, Dr. George R. and Tschilcy, N. K.)	Gulf Coast Drilling Mud Practices Demand Attention to Special Problems	June	155
Alpha, Andrew G.	Take a Look at Montana's Genou Trend	Jan.	79
Andersen, K. E.	Standardization of Bacteriological Testing	Mar.	176
Andrade, Victor.	Bolivia Wants Help (Interviewed by Anthony Gibbon)	June	264
Ault, W. N.	At Delta Gulf Drilling Company Safety Is Everyone's Job	April	216
B			
Bachman, Bill (and Reaves, Peck).	Air Drilling Sets Record in New Mexico	Dec.	162
Baker, Warren L.	Report from the Observatory (with co-Author Dudley, Fay L.). A monthly feature, in current Outlook section of magazine. Analyses petroleum industry's economic situation and prospects	each	issue
Baker, Warren L.	Oil Outlook Is Good	Feb. 15	71
	Critical Problems Face Oil Men	Feb. 1	89
	Government Regulation Is Always Bad	June	77
	Middle East Oil Is Vital to Free World	Aug. 15	119
Baker, Warren L. (and Smith, Cecil W.)	Another Big Gain in U. S. Drilling	Aug. 15	123
Baker, Warren L.	New Ownership of American Business	Sept.	77
	U. S. Tax Burden Can Be Cut	Oct.	101
Barbee, I. P.	Life in Bogota Is a Pleasant Interlude	Mar.	196
Barnett, Kenneth B. (and Vaughan, Jerry R.)	Uniontown Hits Water-Flood Jackpot	April	254
Barrett, J. P. (and Cecil, R. D.)	Catholic Protection in Action	Mar.	149
Bell, G. R. (and Jackson, T. M., Jr.)	Some Tips on Hydraulic Pumps	Sept.	216
Bergeron, M. E. (Eagle, C. J., Marvell, S. J. and Tek, M. R.)	Cyclone Removes Solids from Drilling Fluid	April	190
Bierman, W. S. (Bailey, J. R., Shell, H. J. and Fisher, W. D.)	Low Density Oil Well Cements	Sept.	191
Bermudez, Antonio J. (Interviewed by Lambert, Don E.)	Venezuela's Up Booming Oil Activity	July	40
Best, D. M.	Calculations for Combined Stresses in Drill Pipe	Mar.	169
Billharz, M. L.	How You Can Control Lifting Costs	Aug. 1	125
Bird, James M. (and Flannery, John C.)	How You Can Protect Your Flood	Aug. 1	152
Bird, M. T.	How Long Star Gas Passes Authority Down	Feb. 1	59
Blackburn, N. A. (and Lubinski, Arthur.)	Usefulness of Dip Formation In Drilling 'Crooked' Formations	Nov.	140
Bowden, C. M.	What's the Economic Limit? (In Jet Mt Efficacy equipment)	Feb. 1	166
Burchmeyer, Dr. Max.	Gulf Coast Tectonics	June	113
Beteet, Dr. H. G.	More Oil From Water-Flooding?	Sept.	176
Bingham, Ernest C.	How Anchor Recovers 97% of Drill Stem Undiscovered	Feb. 1	117
Burth, David.	Don't Neglect Your Power Chains	April	197
Boston, J. N. (and Pearman, B. R.)	Hot Water Injection Increases Water Input Rates	Sept.	186
Bramlage, H.T.	Stanvac Exploring 30,000 Square Miles in Pakistan	Jan.	119
	Natural Gas Production 100 Miles from New York City	Feb. 1	40
	TexPet's Peru Exploration Is Unique and Costly Operation	Feb. 1	165
	Australian Aerial Survey Reports Near Completion	June	268
	War-Ravaged Petrofina Now Consists of 56 Firms	July	184
	ARPE Completes 2 Gas Wells on Mt. Etna Flanks	Aug. 1	168
	Heavy Oil Trade Boosts Demand for Tankers	Aug. 1	59
	Five Exploration Parties Active in Remote Amazon	Sept.	237
	New York Discovery Being Developed	Oct.	110
	How Tight Money Affects Oil Industry	Nov.	94
	Indonesian Politics Holds Key to Future Oil Progress	Nov.	219
Brundall, Lawrence.	Photogeology Permits Rapid Mapping of Wide Areas	April	210
Bullard, Edgar F.	Growing Oil Use To Spur Development	Aug. 1	61
Buning, W. L.	Sieve Residue Logs Provide Way of Obtaining Subsurface Information	April	204
Busch, Daniel A.	Good Prospects—A Big Survival Problem for the Small Operator	April	88
Bushing, R. P. (and Hohmann, H. M.)	How Inertia Affects Rig Hoisting	Mar.	192
C			
Calhoun, G. H. (and Carroll, F. M.)	Effect of Tubing Size on Disposal Well May Be More than You Think	Nov.	102
Campbell, John M.	More and Better Engineers Needed	Oct.	113
Campise, Nash O.	Evolution of Low Solids Drilling Fluids	Feb. 1	104
Cannon, George E. (and Wardroup, W. B.)	What Factors are Contributing to Increased Drilling Rates?	May	117
Carroll, F. M. (and Calhoun, G. H.)	Effect of Tubing Size on Disposal Well May Be More Than You Think	Mar.	183
Childress, E. E.	Diesel-Electric Rigs Making a Comeback	June	122
Chin, T. M. (Cook, A. B., Coulter, R. H., Jr., Spencer, G. B. and Elliott, W. C., Jr.)	Put Your Stored Gas To Work at a Profit	July	195
Chronic, John.	How Microfilm Library Aids Research	May	93
Clark, Roscoe C.	What Size Fractures?	May	174
Clarke, W. P.	How to Trim Maintenance Costs on Beam-Type Units	Mar.	197
Cool, E. J. Jr. (and Dallas, W. W.)	New Depths Reached With Natural Gas	Jan.	199
Cokinos, G. P.	Your Well's Minimum Rate of Flow	Nov.	171
Cook, A. B., (Coulter, R. H., Jr., Spencer, G. B., Chin, T. M. and Elliott, W. C. Jr.)	Put Your Stored Gas To Work . . . at a Profit	July	195
Corcoran, R. E.	Sedimentary Basins In Oregon	Oct.	140
Cornell, David.	Applying Von Everdingen and Hurst Solutions to Natural Gas Flow Problems	Feb. 1	132
Coulter, R. H., Jr., (Cook, A. B., Spencer, G. B., Chin, T. M. and Elliott, W. C. Jr.)	Put Your Stored Gas To Work . . . at a Profit	July	195
Cram, Ira H.	Offshore Development Proving Successful	June	69
Crane, P. S.	Drilling Based On Constant Weight-Speed Factor	Mar.	183
Cranford, Buford.	Why Not Dissolve Your Paraffin Problem?	Oct.	200
Crawford, Paul B. (and Wieland, Denton P.)	What to Expect From Elliptical Fractures	May	189
Crawford, Paul B. (and Landrum, Bobby L.)	Do Horizontal Fractures Affect Production Capacity?	May	186
Crawford, Paul B., (Honeycutt, Foster, Sandorlin, James, and Ince, Henry).	How Vertical Fractures Affect Cycling Program	Oct.	215
Cronenwett, Charles E. (and Dancy, Ralph W.).	The Simpson Group . . . Along the East Flank of the Anadarko Basin	Sept.	118
Cummings, F. C.	How to Operate and Maintain Hydraulic Surface Pumping Units	Nov.	180
Cummings, Dr. Robert H.	Gyratory Sieving Speeds Research	Oct.	197
D			
Dallas, W. W. (and Cool, E. J. Jr.).	New Depths Reached With Natural Gas	Jan.	199
D'Alonzo, C. A. (and Fleming, Allan J.)	The Retirement—Is It Good or Bad?	Sept.	59
Davidson, R. D.	Panhandle Gas Well Fracturing Pays Off	Aug. 1	150

INDEX BY AUTHORS—Continued

Author	Article or Item	Issue	Page
Day, J. H.	Why the Trend Toward Electrified Leases?	Dec.	169
Dempsey, John C. (and Bird, James M.).	How You Can Follow Your Flood	Aug. 1	152
Disney, Ralph W. (and Cronenwett, Charles E.)	The Simpson Group . . . Along the East Flank of the Anadarko Basin	Sept.	118
Durbin, Milton B. (and Van Nostrand, Robert G.)	Exploration Geophysics Makes Rapid Strides	April	129
Dew, W. M. (and Parks, A. S.).	New Wellhead Adsorption Unit and What It Means	April	286
Doyle, Raymond L.	Perforating 'Around the Corner'	May	170
Dudley, Ray L.	Report from the Observatory (with co-Author Baker, Warren L.). A monthly feature in current Outlook section of magazine. Analyses petroleum industry's economic situation and markets	each issue	
Dudley, Ray L.	Whose Job Is It (to see that oil business has better understanding at hands of public)?	Jan.	43
	What Will Labor Union Merger Mean?	Mar.	53
	Healthy Industry Imperative	Dec.	75
Dumanoir, J. L. (and Martin, Maurice.).	Determining True Resistivity	July	95
Dunning, H. N., (Johansen, R. T., Walker, C. J., Powell, J. P. and Watkins, H. W.).	Have You Tried a Water-Flood Detergent?	Sept.	196

E

Eby, Dr. J. Brian.	How Oil Production in Russia Has Gained Since World War II	Aug. 15	174
	Russian Government is Giving No. 1 Priority to Education	Sept.	238
	Salt Dome Interest on Gulf Coast	Oct.	143
Edgerton, Dr. Harold A.	Hiring is a Science	Jan.	52
	How to Conduct a Successful Interview	Oct.	120
Elliott, W. C. Jr., (Cook, A. B., Coulter, R. H. Jr., Spencer, G. B. Jr. and Chin, T. M.).	Put Your Stored Gas To Work . . . at a Profit	July	135
Engle, C. J., (Bergman, W. E., Marwil, S. J. and Tek, M. R.).	3-Inch ID Cyclone Removes Solids from Drilling Fluids	April	190

F

Fawcett, E. St. Lawrence Lowlands Drawing Renewed	Interest	Sept.	246
Faschler, E. E.	How to Get Full Value From Internal Auditing	May	72
Fisher, H. F., (Shell, F. J., Hurley, J. R., and Bergman, W. E.).	Low Density Oil Well Cements	Sept.	131
Fleming, Allan J. (and D'Alonzo, C. A.)	The Retirement Pad—Is It Good or Bad?	Sept.	90
Folsom, C. B. (and Laird, W. M.).	North Dakota's Nesson-Anticline	Mar.	89
	Madison Problems are Unusual	June	136
Fraser, Tom H.	Solve Your Own Pump and Rod Problems	Nov.	176
	Solve Your Own Unit Pumper and Prime Mover Problems	Dec.	167
Frost, E. L. K.	Filling the Ranks Poses Problems for Oil Industry	Mar.	59

G

Gabriel, V. G.	Generalized Unda Environment in Time and Space	Nov.	130
Gartner, F. W. Jr.	Metalizing Helps Lick Gulf Coast Corrosion	June	220
Gaston, Al.	Preventing Seepage in Open-Type Ponds	Sept.	224
Gamula, Juan (and Taylor, Earle F.).	Oil Exploration by Valdebro in Spain	April	316
Gibbon, Anthony.	Uranium from Oil Flood Waters	May	63
Gibbon, Anthony (and Talbot, J. S.).	New Aluminous Cement Developed for Oil Wells	Jan.	99
Gibbon, Anthony.	Bolivia Wants Help, Ambassador Says	June	264
Gibbon, Anthony, (Logan, L. J. and Wilson, Gilbert M.).	Pipe Scarcity Threatens to Curtail Drilling	June	82
Gibbon, Anthony.	Bartlesville Bureau of Mines Station Facing Cutback	July	62
	Direct Mail and Electronic Machines Replace Land Men in Unitization	Sept.	80
	Shale Oil Soon May Compete with Crude	Sept.	84
	How do You Solve Your Problems?	Oct.	264
	Old Faithful Flows Again	Oct.	103
	Phillips Has a Big Stake in British Columbia Operations	Nov.	207
Gibbs, Ty.	How to Select and Handle Wire Rope	Nov.	158
Gibson, K. H.	All's Well on this Flowing Well	Feb. 1	193
Goodicke, T. R.	Areas of Interest in Marine Oil Prospecting	Nov.	116
Goodicke, T. R. (and Locke, E. R.).	New Techniques in Marine Geophysics	Dec.	122
Gore, G. L.	Planning a Fracture in a New Area	May	174
Gorman, Ruth H.	Caracas: A Storied Past, a Bright Future	Jan.	182
Gould, E. D. (and Barrett, J. P.).	Cathodic Protection in Action	Mar.	149
Grant, Willard W.	How TexPet Uses Radio in Venezuela	May	220
Gray, Dr. George R.	It's Still Called Mud	May	132
Gray, Dr. George R., (Allen, G. G. and Tschirley, N. K.).	Gulf Coast Drilling Mud Practices Demand Attention to Special Problems	June	155
Gregath, J. R.	New Welding Technique Cuts Failures on Tubular Goods	Nov.	135
Gronemeyer, Dr. Ing. W.	The Russian Claim . . . Increased Drilling Rates With Turbodrills	Dec.	144
Gussow, William C.	Migration of Oil	Aug. 1	79
	Time Accumulation and Evolution of Hydrocarbons	Sept.	113

H

Hardy, A. A.	What to Do About Sucker Rod Failures	Feb. 1	120
Harris, Dr. Sidon.	With a Drilling Rig (Search for uranium)	Jan.	44
Hayes, J. A. Jr.	Mississippian Production In The Osage	Feb. 1	85
Hayley, Holliday.	Streamlined Accounting for the Small Producer	Feb. 1	48
Heim, A. H. (and True, H. W.).	Formation Samples Indicate Low Resistivity On Log Could Mean "Chert"	Mar.	126
Henderson, J. K., (Sallee, W. L. and Stout, C. M.).	How Plastic-Coated Walnut Shells Control Loose Sands	April	271
Hohmann, H. M. (and Busking, B. E.).	Inertia Affects Rig Hoisting	Mar.	132
Honeycutt, Baxter, (Crawford, Paul B., Sanderlin, James, and Ince, Henry).	How Vertical Fractures Affect Cycling Program	Oct.	245
Hopkins, George B.	Deep Drilling in U. S. Is Disappointing	Mar.	54
Hoppins, Charles.	Pierce Junction Is Hottest Spot on Texas Gulf Coast	June	205
Hubby, L. M.	What About Automatic Production Controls?	April	247
Hughes, Willis.	Mississippi Structure Shows Promise of Vast Reserves	April	115
Hurley, J. R., (Shell, F. J., Bergman, W. E., and Fisher, H. B.)	Low Density Oil Well Cements	Sept.	131
Huss, Carl I.	Oil Boom On the Flat Plains	Oct.	105

I

Ince, Henry, (Crawford, Paul B., Honeycutt, Baxter, and Sanderlin, James).	How Vertical Fractures Affect Cycling Program	Oct.	245

J

Jackson, T. M. Jr. (and Bell, G. R.).	Some Tips on Diatomite Filters	Sept.	216
Jamieson, W.	Tanker's Role Looms Big in Oil Transport Picture	Dec.	80
Johansen, R. T., (Dunning, H. N., Walker, C. J., Powell, J. P. and Watkins, H. W.).	Have You Tried a Water-Flood Detergent?	Sept.	196
Johnson, Allan C.	Atomic Energy Serves Oil Industry	Feb. 1	46
Johnson, Douglas O.	Pumping Well Problems in Focus (Use of available instruments)	Jan.	137
Jones, Douglas M.	Long-Stroke Hydraulic Pumping Unit	July	152
Jones, Hal T.	Seismic Data Processing	Dec.	113
Jones, L. Dan.	84th Congress a Vital One for the Oil Industry	Feb. 15	93
Jordan, C. R.	Louisiana's Pine Island . . . Chalk Rock Proving Ground	June	240
Joseph, James.	Life in Barranquilla	Oct.	274
Joynt, K. R. (and Massad, A. H.).	Directional Drilling for Salt Dome Oil Production	June	102

K

Kidd, Harry L.	Human Relations Is a Two-Way Street	Aug. 1	82
Kiser, G. E.	How 15 Companies Handle Capital Expenditures	Dec.	88
Kliewer, Don.	01 Exploration Bids Filed Under New Guatemalan Law	Jan.	180
	Rumania Plunges Into Red 'Leftovers'	Aug. 1	162
	Cuban American Brings In 800-1000-Barrel Producer	Aug. 1	161
	What's the Significance of Iranian Discovery?	Dec.	206
Knebel, G. M. (and Rodrigues-Eraso, Guillermo).	Take a Look at Free World's 236 Major Oil Fields	May	98
Knight, E. T.	4% Increase in Demand Is Forecast for 1957	Dec.	83

INDEX BY AUTHORS—Continued

Author	Article or Item	Issue	Page
Koch, H. A. Jr.	High Pressure Gas Injection Is a Success	Oct.	260
Koger, W. C.	How to Get the Most From Your Inhibitor	Mar.	167
Kornfeld, Joseph A.	Significant Lower Paleozoic Finds in Anadarko Basin	Nov.	107

L

Laird, W. M. (and Folsom, C. B.).	North Dakota's Nesson-Anticline	Mar.	89
	Madison Problems Are Unusual	June	136
Lambert, Don P.	Mexico Steps Up Booming Oil Activity	July	40
Lambert, Don E.	Suez Dispute—A Case of Double Jeopardy	Sept.	82
	On November 6th Americans Will Choose	Oct.	126
	Offshore Operators Look at Flossie's Damage	Nov.	73
Landrum, Bobby L. (and Crawford, Paul B.).	Do Horizontal Fractures Affect Production Capacity?	May	196
Leahy, Bernard H.	Surface Alteration Utilized in Structural Mapping—A Function of Earth Temperature	Nov.	123
	Earth Temperatures, Alteration Studies Reflect Subsurface Structure	Dec.	116
Leverson, A. I.	Better Exploration Promises Enough American Oil for U. S.	April	80
Link, Theodore A. (with Wilson, Gilbert M.).	What's the Outlook in Canada?	April	163
Lloyd, Dr. Stewart J.	Prospects for Deep Drilling in Alabama	Mar.	102
Locke, E. P. (and Goedicke, T. R.).	New Techniques in Marine Geophysics	Dec.	122
Logan, George C.	What Injection Pump Fits Your Operation?	Sept.	233
Logan, L. J.	U. S. Supply and Demand . . . Greater demand will require more production	Feb. 15	74
	Gas Bill Veto Hurts Both Producers and Consumers	Mar.	71
	General Wage-Price Hikes May Push Oil Prices Up	May	82
	Independents Big Factor; Majors Jockey for Rank	June	100
Logan, L. J., (Gibbon, Anthony and Wilson, Gilbert M.).	Pipe Scarcity Threatens to Curtain Drilling	June	82
Logan, L. J.	Fluid Injection Expands U. S. Oil Resources	July	46
	Second Quarter Earnings Up 15.4% for 46 Oil Companies	Sept.	73
	Nine Months Earnings Up 16.2% for 57 Companies	Dec.	100
Lubinski, Arthur (and Blenkarn, K. A.).	Usefulness of Dip Formation In Drilling 'Crooked' Formations	Nov.	140
Lummus, J. L. (and Randall, B. V.).	New Oil Base and Invert Emulsion Muds Introduced	Nov.	150
Lundelius, O. E. Jr.	Don't Short Circuit Your Offshore Operation	June	226

Mc

McCollum, L. F.	Better Management of Oil Inventories Is Needed	Nov.	75
McDonnald, Morris.	The Operator Can Help the Contractor	Oct.	186
McEachern, D. J.	Pressure Maintenance In the Golden Spike Pool	Oct.	232
McLean, Dr. Alan A.	What's Wrong With Employe Communications?	Oct.	114
McPhail, William H.	A Water-Flood . . . From the Ground Up	Sept.	206

M

MacDonald, G. C.	Slim Hole to Crowd Big Hole Drilling?	Feb. 1	91
	What Causes Primary Cement Failures?	Aug. 1	115
	Streamline Your Rig and Save Money	Oct.	103
Malone, Thomas F.	To Minimize Hazards in Offshore Operations	June	176
Martin, Maurice (and Dumanoir, J. L.).	Determining True Resitivity	July	95
Marvil, S. J., (Engle C. J., Bergman, W. E. and Tek, M. R.).	8-Inch ID Cyclone Removes Solids from Drilling Fluids	April	190
Masraf, A. H. (and Joynt, K. R.).	Directional Drilling for Salt Dome Production	June	192
Milstein, Mark.	New Method Indicates Productive Area	Nov.	113
Moore, Thomas O.	Frequency Response	Dec.	112
Morris, James T. (and Ramsey, Robert P.).	When Does it Pay to Drill With Air?	Jan.	112
Mortensen, Tage A.	How Operations Research Aids Management	Nov.	80
Moyal, Maurice.	SCP Finds 5 New Oil Areas in Morocco During 1955	July	176
Muller, J. A.	How to Make Rotary Hose Last Longer	Aug. 1	121
Murphy, Bert.	Acid-Soluble Cement Helps Injection Well Completions	April	278

Author	Article or Item	Issue	Page

N

Noonan, John F.	How to Identify Clay Minerals . . . and Why	Dec.	196

O

Oliphant, S. C.	An Operator Looks at the Contract	Oct.	195
Orr, Vance W.	Combining Rotary and Cable Tool Drilling	July	118

P

Parks, A. S. (and Dow, W. M.).	New Wellhead Adsorption Unit and What It Means	April	286
Patton, Roger R.	North Central Oklahoma Offers Good Possibilities	Jan.	86
Pearman, B. R. (and Breston, J. N.).	Hot Water Injection Increases Water Input Rates	Sept.	186
Pendley, Glenn.	Porous Chrome Plating For Wear Resistance	Feb. 1	93
Pohly, Richard A.	Reefs Are Hard to Find	July	75
Postlewaite, W. R. (and Thacher, J. H.).	Turbodrill Development—Past and Present	Dec.	131
Powell, J. P., (Dunning, H. N., Johansen, R. T., Walker, C. J., and Watkins, H. W.).	Have You Tried a Water-Flood Detergent?	Sept.	196
Powell, W. K.	Fringe Costs Must Be Considered	Oct.	109
Powers, M. L.	Automation- Glamor Word of Industry	Jan.	80

R

Ramsey, Robert P. (and Morris, James T.).	When Does it Pay to Drill With Air?	Jan.	112
Randall, B. V. (and Lummus, J. L.)	New Oil Base and Invert Emulsion Muds Introduced	Nov.	150
Rassmuss, Dr. J. F.	Peru and Colombia Pave Way for Private Capital	Mar.	200
	Why Bolivian Prospects Look Brighter	May	216
Rathbone, M. J.	Unfavorable Legislation Shows Why Business Must Make Itself Understood	June	84
Rea, Henry Carter.	U. S. Oil Industry Called Answer to Indian Problem	July	170
Reaves, Peck (and Bachman, Bill).	Air Drilling Sets Record in New Mexico	Dec.	102
Rehn, E. E.	Rim Areas Paying Off in Illinois and Kentucky	Jan.	48
Riordan, Maurice A.	Cathodic Protection Reaches Up to Cover the Splash Zone	June	220
Robinson, J. B.	Application of Organic Inhibitors in Water-Flooding	Feb. 1	160
Rodrigues-Eraso, Guillermo (and Knebel, G. M.).	Take a Look at the Free World's 236 Major Oil Fields	May	98
Rollins, H. M.	Controlling Crooked Holes by Using Large OD Drill Collars	April	182
	New Tables for Woods-Lubinski Data	May	142
Rosu, Dr. G. G.	USSR Draws Poland Into 'Zonal' Planning	Aug. 15	193

S

Sallee, W. L., (Henderson, J. K. and Stout, C. M.).	How Plastic-Coated Walnut Shells Control Loose Sands	April	271
Salter, R. E.	Magnetic Tape Recorder Spells Progress	April	342
Sanderlin, James, (Ince, Henry, Crawford, Paul B. and Honeycutt, Baxter).	How Vertical Fractures Affect Cycling Program	Oct.	246
Savit, Carl H.	Italy—Future Oil Reservoir of Europe	Aug. 1	91
Saxon, W. M. (and Weyler, J. R.).	A Modern Ark Thwarts the Flood	Oct.	237
Schuelke, John N.	World's Largest Mobile Rig	Feb. 1	117
	Are Diesel-Electrics Moving Inland?	June	165
	A Look at the Drilling Contract Industry	Oct.	155
Scrimes, W. R.	Eliminate Electrical Hazards	July	112
Seligman, Alain.	Hydraulic Drill Collars Increase Drilling Efficiency	Jan.	101
Shanor, Paul J.	Evaluation of Water-Flood Prospects	Sept.	174
Shead, W. C. (and Allen, Edwin R.).	Is a Salt Dome's North Flank Its Best Bet?	April	158
Shell, F. J., (Hurley, J. R., Bergman, W. E. and Fisher, H. B.)	Low Density Oil Well Cements	Sept.	181
Slonneger, John C.	Simplify Your Calculations	Nov.	191
Smith, Dr. Arthur A.	Fixing Field Prices of Gas Will Be Difficult	Nov.	89
Smith, Cecil W. (and Baker, Warren L.).	Another Big Gain in U. S. Drilling	Aug. 15	183
Sollitt, Rev. Kenneth W.	Oysters or Eagles? (Freedom and Responsibilities)	May	59

INDEX BY AUTHORS—Continued

Author	Article or Item	Issue	Page
Spalding, J. C. Jr.	How to Sell Corrosion Control to Management	Jan.	170
Spencer, G. B., (Cook, A. B., Coulter, R. H. Jr., Chin, T. M. and Elliott, W. C. Jr.).	Put Your Stored Gas To Work . . . at a Profit	July	135
Stahmer, A. M.	Matzen-Auersthal Is Called Western Europe's No. 1 Field	June	270
Stambaugh, John F. V.	Don't Overlook Possible Tax Savings	May	63
Steiger, A. J.	Soviet Says It's Drilling, Crude Yield, Reserves Up	Mar.	195
Stoner, Richard C.	How to Get the Most From Mud Pump Hose	April	210
Stoop, R. J.	How to Care for and Run Tubing	July	145
Stout, C. M., (Sallee, W. L. and Henderson, J. K.).	How Plastic-Coated Walnut Shells Control Loose Sands	April	271
Strider, H. E.	Minutes are Money—Plan Your Well	Oct.	196
Swaminathan, V. S.	Nigeria (Shell-D'Arcy search for Oil)	Feb. 1	168
Swapp, Cloyd W.	Boom or Bust? (Evaluation of Arizona possibilities)	July	80
Sweeney, Albert E.	How Important is Water-Flooding?	Sept.	173
T			
Talbot, J. S. (and Gibbon, Anthony).	New Aluminous Cement Developed for Oil Wells	Jan.	99
Tanner, William F.	New Method for Mapping Old Shorelines	April	123
	Geological Students Go Underwater	June	126
Tausch, G. H.	Why Not Use a Tubing Gun?	Dec.	178
Taylor, R. G.	What Fracturing Has Done For the San Juan Basin	May	164
Taylor, Earle T. (and Gavala, Juan).	Oil Exploration by Valdebro in Spain	April	316
Tek, M. R., (Bergman, W. E., Engle, C. J. and Marwil, S. J.).	3-inch ID Cyclone Removes Solids from Drilling Fluids	April	190
Terrell, George I.	Are Your Risks Insured?	Oct.	165
Thacher, J. H. (and Postlewaite, W. R.).	Turbodrill Development—Past and Present	Dec.	131
Thomas, G. P.	What the Hugoton Activity Means	Feb. 1	75
Thompson, A. W.	The Drilling Industry Answers a Challenge	Mar.	114
Tomkins, H. E. V.	Suez Canal Is Blocked . . . Effect to Be Worldwide	Dec.	76
Torell, L. C.	What's Wrong With Tapered Drilling Lines?	April	232
Trager, Karl.	Don't Overlook Oil Shale	Dec.	194
Trichett, Joseph M.	What Are We Doing About Middle Men of Management?	July	52
True, H. W. (and Helm, A. H.).	Formation Samples Indicate Low Resistivity On Log Could Mean "Chert"	Mar.	126
Tschirley, N. K., (Gray, Dr. George R. and Allen, G. G.),	Gulf Coast Drilling Mud Practices Demand Attention Special Problems	June	155
Tver, David F.	Needed: Engineers Qualified For Top Management	Aug. 1	55
U			
Utis, Auren.	How to Increase Presenteeism	Feb. 1	52
	Do You Give Orders Effectively?	Mar.	65
V			
Valint, F. M.	What's New in Canadian Rigs?	Sept.	156
Vance, Harold.	Will the Banks Finance the Contractor?	Oct.	179
Van Nostrand, Robert G. (and Dorbin, Milton B.).	Exploration Geophysics Makes Rapid Strides	April	123
Vaughan, Jerry R. (and Barnett, Kenneth E.).	Uniontown Hits Water-Flood Jackpot	April	234
Veritas.	Hungary's 1955 Crude Output Best Yet	Aug. 15	183
W			
Waldie, Alan D.	Weight-Drop Technique—How It's Working Out	April	143
	Magnetic Tape Recording Gains Popularity	Dec.	111
Walker, C. J., (Dunning, H. N., Johansen, R. T., Powell, J. P. and Watkins, H. W.).	Have You Tried a Water-Flood Detergent?	Sept.	196
Wallace, Henry J.	Steel Supplies in U. S. To Increase Gradually	Oct.	102
Walters, J. D.	Good Engineering Pays Off in Osage County Water-Flood	Aug. 1	140
Wardroup, W. R. (and Cannon, George E.).	What Factors Are Contributing To Increased Drilling Rates?	May	117
Waters, A. B.	Japan Stepping Up Drilling Program and Conservation	Dec.	203
Watkins, H. W., (Dunning, H. N., Johansen, R. T., Walker, C. J. and Powell, J. P.).	Have You Tried a Water-Flood Detergent?	Sept.	196
Weyler, J. R. (and Saxon, W. M.).	A Modern Ark Thwarts the Flood	Oct.	227
Wickersham, Newton W.	What About Variable Cycle Pumping?	Aug. 1	135
Wieland, Denton R. (and Crawford, Paul B.).	What to Expect From Elliptical Fractures	May	192
Wilcox, William S.	Pin Pricks From Within	Mar.	57
	Who Is Listening to Non-Union Employes?	June	95
	How Can a Company Lose?	Sept.	96
Willets, Herbert.	Oil Use to Increase Further in 1957	Nov.	77
Willke, H. L.	Trends Toward Large Rigs And Fluid-Driven Pumps	Aug. 1	100
	Trends Toward Large Rigs and Fluid-Driven Pump	Sept.	144
Wilson, Gilbert M. (with Link, Theodore A.).	What's the Outlook in Canada?	April	168
Wilson, Gilbert M., (Logan, L. J. and Gibbon, Anthony.).	Pipe Scarcity Threatens to Curtail Drilling	June	83
Wilson, Gilbert M.	What Union of California Is Doing About Shale Oil	Sept.	86
Wooddy, L. D., Jr. (and Wright, Harold T.).	Formation Evaluation—Is It Worthwhile?	Mar.	154
Woodward, Herbert P.	New Look is Needed in Appalachian Basin	Mar.	96
Worley, W. S.	How to Maintain V Belts	May	159
Wright, Harold T. (and Wooddy, L. D., Jr.).	Formation Evaluation—Is It Worthwhile?	Mar.	154
Z			
Zerr, C. M.	How Bending Stresses Affect the Selection of Sheaves and Drums for Wire Ropes	July	122
Zondag, Cornelius H.	New Oil Law May Bolster Bolivia Economy	April	307

INDEX BY SUBJECTS

CONTENTS OF SUBJECT INDEX

Classification of Material	Page of Index
Drilling Articles	6
Drilling Hints	7
Economic and Political Articles and Features	8
Editorials	9
Exploration, Geological and Geophysical Articles	9
Human Relations Articles	10
International News and Articles	11
Miscellaneous Articles and Features	13
Production Articles	13
Production Hints	15

DRILLING ARTICLES

Subject	Title	Author	Issue	Page
Air and Gas Drilling (Also see Gas Drilling).	New Depths Reached With Natural Gas.	W. W. Dallas and E. J. Cool, Jr.	Jan.	109
	When Does it Pay to Drill With Air? (Part 3.)	James T. Morris and Robert P. Ramsey	Jan.	112
	Air Drilling Sets Record in New Mexico.	Peek Reaves and Bill Bachman	Dec.	162
Barges (See Offshore).				
Belts.	How to Install and Maintain V-Belts.	W. S. Worley	May	150
Bits.	What's the Economic Limit? (in jet bit drilling equipment).	R. M. Boren	Feb. 1	106
Blowouts.	How to Minimize Pressure Surges		Aug. 1	99
Cable Tools.	Combining Rotary and Cable Tool Drilling.	Vance W. Orr	July	118
Cementing (Also see Production articles).	New Aluminous Cement Developed for Oil Wells.	J. S. Talbot and Anthony Gibbon	Jan.	99
	What Causes Primary Cement Failures?	G. C. MacDonald	Aug. 1	115
	Low Density Oil Wells Cements.	F. J. Shell, J. R. Hurley, W. E. Bergman and H. B. Fisher	Sept.	131
Continental Shelf (See Offshore).				
Contractors.	Drilling by Contractors Sets New Records		Feb. 15	148
	Contractor Rig Ownership Slightly More than 4000 Rigs in U. S.		Feb. 15	148
	Drilling Industry Answers a Challenge.	A. W. Thompson	Mar.	114
	Look at the Drilling Contract Industry.	John P. Schulke	Oct.	155
	Will the Banks Finance the Contractor?	Harold Vance	Oct.	179
	Can Engineers Help the Contractor?		Oct.	182
	Operator Can Help the Contractor.	Morris McDannald	Oct.	186
	An Operator Looks at the Contract.	S. C. Oliphant	Oct.	195
	Cooperation and Planning Can Mean Profit for Everyone		Oct.	210
Contracts.	An Operator Looks at the Contract.	S. C. Oliphant	Oct.	195
Coring.	Formation Samples Indicate Low Resistivity On Electric Log Could Mean "Chert".	A. H. Heim and H. W. True	Mar.	126
Costs. (Also see Economic Articles).	U. S. Drilling Costs Shoot Up Beyond 10,000-Foot Mark		Feb. 15	138
	Drilling Industry Answers a Challenge.	A. W. Thompson	Mar.	114
	Future Costs Must Be Considered.	W. K. Powell	Oct.	160
	Will the Banks Finance the Contractor?	Harold Vance	Oct.	179
	Can Engineers Help the Contractor?		Oct.	182
	Operator Can Help the Contractor.	Morris McDannald	Oct.	186
	Minutes are Money—Plan Your Well.	H. L. Strider	Oct.	196
	Cooperation and Planning Can Mean Profit for Everyone		Oct.	210
Crooked Holes.	New Tables for Woods-Lubinski Data . . . Here's How to Use Them.	H. M. Rollins	May	142
	Usefulness of Dip Information In Drilling 'Crooked' Formations.	Arthur Lubinski and K. A. Blenkarn	Nov.	140
Deep Drilling.	Greatest Well Depths (By Areas)		Feb. 15	130
	Average Depth Per Well is 24 Feet Deeper than '52 Record		Feb. 15	130
	Drilling Depth Record Four Miles Below Surface in Louisiana		Feb. 15	142
	Deep Drilling In U. S. Is Disappointing.	George E. Hopkins	Mar.	54
	Prospects for Deep Drilling in Alabama.	Dr. Stevens J. Lloyd	Mar.	102
	World's Deepest Wells		Aug. 15	151
Dipmeter.	Usefulness of Dip Information In Drilling 'Crooked' Formations.	Arthur Lubinski and K. A. Blenkarn	Nov.	140
Directional Drilling.	Directional Drilling for Salt Dome Oil Production.	K. R. Joynt and A. H. Massad	June	192
Drill Collars.	Hydraulic Drill Collars Increase Drilling Efficiency.	Alain Seligman	Jan.	101
Drill Pipe (See Pipe).				
Drilling Activity (See Economic Articles).				
Electric Logging (See Well Logging).				
Electricity.	Eliminate Electrical Hazards.	W. R. Scrimes	July	112
Engineering.	Can Engineers Help the Contractor?		Oct.	182
Equipment.	How to Install and Maintain V-Belts.	W. S. Worley	May	150
Finance.	Will the Banks Finance the Contractor?	Harold Vance	Oct.	179
Fluids (See Mud).				
Gas Drilling (See Air and Gas Drilling).				
Hose.	How to Make Rotary Hose Last Longer.	J. A. Muller	Aug. 1	121
Illinois.	Rim Areas Paying Off in Illinois and Kentucky.	E. E. Rehn	Jan.	48
Insurance.	Are Your Risks Insured?	George I. Terrel	Oct.	165
Kentucky.	Rim Areas Paying Off In Illinois and Kentucky.	E. E. Rehn	Jan.	48
Management.	Minutes are Money—Plan Your Well.	H. L. Strider	Oct.	196
Mud.	Evolution of Low Solids Drilling Fluids.	Nash O. Campise	Feb. 1	102
	It's Still Called Mud.	Dr. George R. Gray	May	132
	Gulf Coast Drilling Mud Practices Demand Attention to Special Problems.	Dr. George R. Gray, G. G. Allen and N. K. Tschirley	June	165
	New Oil Base and Invert Emulsion Muds Introduced.	J. L. Lummus and B. V. Randall	Nov.	159
New Mexico.	Air Drilling Sets Record in New Mexico.	Peek Reaves and Bill Bachman	Dec.	162
Offshore.	Optimism Offshore		Feb. 1	62
	Shell Completes Permanent Offshore Drilling Platform		Feb. 1	114
	Platform With Electric Legs (Three-legged drilling barge)		May	127
	Diesel-Electric Rigs Making a Comeback.	E. E. Childress	June	162
	Weather Hazards in Offshore Operations.	Thomas F. Malone	June	176
	When Storms Threaten		June	186
	New Platform Has Slanted Piling For Deepest Gulf Drilling		July	116
	Offshore Operators Look at Flossie's Damage.	Don E. Lambert	Nov.	73
Penetration Rates.	Drilling Based On Constant Weight-Speed Factor.	F. S. Crane	Mar.	142
	What Factors are Contributing To Increased Drilling Rates?	W. R. Wardroup and George E. Cannon	May	117
Pipe.	Calculations for Combined Stresses in Drill Pipe.	D. M. Best	Mar.	109
	Pipe Scarcity Threatens to Curtail Drilling.	L. J. Logan, Anthony Gibbon, and Gilbert M. Wilson	June	82
	Steel Supplies in U. S. To Increase Gradually.	Henry J. Wallace	Oct.	167
Planning.	Minutes Are Money—Plan Your Well.	H. L. Strider	Oct.	196
	Cooperation and Planning Can Mean Profit for Everyone		Oct.	210
Practices, Problems, Techniques.	Drilling Based On Constant Weight-Speed Factor.	F. S. Crane	Mar.	142
	What Factors Are Contributing To Increased Drilling Rates?	W. R. Wardroup and George E. Cannon	May	117
	New Tables for Woods-Lubinski Data . . . Here's How to Use Them.	H. M. Rollins	May	142
	Directional Drilling for Salt Dome Oil Production.	K. R. Joynt and A. H. Massad	June	192
	How to Minimize Pressure Surges		Aug. 1	99
	Operator Can Help the Contractor.	Morris McDannald	Oct.	186
Pumps.	Trends Toward Large Rigs And Fluid-Driven Pumps.	H. L. Willke	Aug. 1	109
	Trends Toward Large Rigs and Fluid-Driven Pumps.	H. L. Willke	Sept.	144
Rigs.	Finding Uranium With a Drilling Rig.	Dr. Sidon Harris	Jan.	45
	Tremendous Savings Around Drilling Rigs are Promised by Porous Chrome Plating for Wear Resistance.	Glenn Pondley	Feb. 1	98
	Shell Completes Permanent Offshore Drilling Platform		Feb. 1	114
	World's Largest Mobile Rig.	John N. Schuelke	Feb. 1	117
	How Inertia Affects Rig Hoisting.	H. M. Hohmann and B. E. Busking	Mar.	132
	How to Install and Maintain V-Belts.	W. S. Worley	May	150
	Diesel-Electric Rigs Making a Comeback.	E. E. Childress	June	162
	Are Diesel-Electrics Moving Inland?	John N. Schuelke	June	163
	Eliminate Electrical Hazards.	W. R. Scrimes	July	112
	Trends Toward Large Rigs And Fluid-Driven Pumps.	H. L. Willke	Aug. 1	109
	What's New in Canadian Drilling Rigs?	F. M. Valint	Sept.	156
	Streamline Your Rig and Save Money.	G. S. MacDonald	Oct.	182
Rotary.	Combining Rotary and Cable Tool Drilling.	Vance W. Orr	July	118
Safety.	Eliminate Electrical Hazards.	W. R. Scrimes	July	112
Slim Holes.	Slim Hole to Crowd Big Hole Drilling?	G. C. MacDonald	Feb. 1	91

DRILLING ARTICLES—Continued

Subject	Title	Author	Issue	Page
Torque Converter.	Light Rig Toque Converter Application		Jan.	124
Transportation.	Streamline Your Rig and Save Money.	C. C. MacDonald	Oct.	168
Tubular Goods (Also see Pipe).	New Welding Technique Cuts Failures on Tubular Goods.	J. R. Gregath	Nov.	135
Turbines and Turbodrills.	Turbodrill Development—Past and Present.	J. H. Thacher and W. R. Postlewaite	Dec.	131
	Russian Claim . . . Increased Drilling Rates With Turbodrills.	Dr. Ing. W. Gronemeyer	Dec.	144
	Russian Turbodrills . . . How Good Are They?		Dec.	151
Weather.	Weather Hazards in Offshore Operations.	Thomas F. Malone	June	176
	When Storms Threaten		June	186
	Offshore Operators Look at Flossie's Damage.	Don E. Lambert	Nov.	73
Welding.	New Welding Technique Cuts Failures on Tubular Goods.	J. R. Gregath	Nov.	135
Well Logging.	Formation Samples Indicates Low Resistivity On Electric Log Could Mean "Chert".	A. H. Heim and H. W. True	Mar.	126
	How do the Various Logging Devices Compare When Determining True Resistivity.	Maurice Martin and J. L. Dumanoir	July	95
Wells Completed (See Economic Articles).				
Wire Rope.	How Bending Stresses Affect the Selection of Sheaves and Drums for Wire Ropes.	C. M. Zerr	July	122
	How to Select and Handle Wire Rope.	Ty Gibbs	Nov.	158

DRILLING HINTS

Title	Issue	Page
Container Quick Drys Rotary Cutting on Rig	Jan.	198
Portable Wire Line Unit Speeds Well Measurements	Jan.	198
Pipe Slide Extensions Form Stairway Supports	Jan.	198
Install Blowdown Muffler To Protect Vegetation	Jan.	200
Strap Spare Drilling Line To Rig When Skidding	Jan.	200
Extra Block Aids Suction Line Adjustment	Jan.	202
Leg of Skid Provides Riser for Filling Line	Jan.	202
Rails on Block Covers Ease Handling	Jan.	202
Unitized Hopper and Table Facilitates Mud Mixing	Jan.	202
Rig Adjustable Legs To Keep Doghouse Level	Jan.	204
Simple Surge Chamber Prevents Pump Pound	Jan.	204
Rig Drill Line Spool Support	Feb. 1	182
Elevated Fuel Tank Has Tool Rack in the Skids	Feb. 1	182
Shop Made Rack Aids Mud-Hose Handling	Feb. 1	182
Make Convenient Walkover from Scrap	Feb. 1	184
Simple Cook Stove Can Be Made on Rig	Feb. 1	184
Keep Pipe Dope Bucket At Working Level in Stand	Feb. 1	186
Additional Storage Bins Can be Built Onto Tanks	Feb. 1	186
Small Diameter Plate Speeds Line Fishing	Feb. 1	187
Provide Proper Storage for Rotary Hose	Feb. 15	192
Truck Protects Area Around Shot Hole	Feb. 15	192
Pipe Splint Prevents Suction Hose Damage	Feb. 15	194
Auto Wheel Provides Storage for Light Wires	Feb. 15	194
Pump Skid Brace Serves As Discharge Manifold	Feb. 15	196
Mount Table Drive In Rig Substructure	Feb. 15	196
Rig Handy Clothes Washer On Water Discharge Line	Feb. 15	198
Weld Safety Chain Guards To Slips and Slip Handles	Feb. 15	198
Scrubber on Workover Unit Allows Use of Field Gas	Mar.	214
Mount Rod Lubricator On Pump Fame	Mar.	214
Decking Converts Rack to Small Equipment Storage	Mar.	214
Exhaust Extended with Flange and Saddle	Mar.	218
Chains Support Engine Shelter Panels	Mar.	218
Make Floor Extension and Support in Shop	Mar.	220
Circulate Overload Through Suction Line	Mar.	220
Pipe Carrier Can Be Made from Scrap	April	328
Liner Storage Rack Facilitates Inspection	April	328
Mount Both Mud Pumps on One Skid	April	330
Spools on Utility Shed Provide Line Storage	April	330
Add Tool Racks to Slush Pump Base	April	332
Built-In Reservoir Keeps Lubricant Clean	April	332
Oil Bath Protects Mud Pump Piston Rods	April	334
Rig Rotary Hose Carrier Around Oblong Tool Bin	April	334
Make a Permanent Pipe Working Place	April	337
Valve Extension to Derrick Saves Steps	April	337
Unitized Mud System Cuts Pipe Work	May	234
Set Up Stove Outside To Dry Drilling Samples	May	234
Central System Assures Regular Greasing Job	May	236
Skid-Mounted Holders Ease Drum Handling	May	236
Used Drum Provides Extra Storage Space	May	238
Make Spare Parts Bin From Scrap Materials	May	238
Doghouse in Substructure Save Space and Money	May	241
Doghouse Cradles on Tool Bin Moves	May	242
Catline Aids Footing on Inclined Walk	May	242
Lubricant Tanks Prevent Contamination	June	286
Build Double-Purpose Junk Bins	June	286
Provide Permanent Ground When Welding Platforms	June	288
Cheater on Handle Aids Valve Operation	June	288
Rig Skid-Mounted Cradle For Traveling Block	June	291
Notched Plate and Bar Ease Pump Rod Removal	June	292
Market on Telephone Pole Indicates Road to Rig	June	294
Standardize Pipe Racks For More Yard Space	June	294
Unitize Piping System for Mud Pumps	July	192
Doghouse-Junk Box Unit Eases Moving	July	192
Mount 3 Mud Guns on Pipe Framework	July	195
Build Mud Lab Onto Mud Tanks	July	195
Rig Spare-Parts Rack for Pump Rods and Plungers	July	196
Provide Outside Drain From Water Can Holder	July	196
Brace Engine Exhausts With Scrap Pipe Unit	July	199
Bin for Waste Rags Aids Safety Program	July	199
Vise on Side of Pipe Bin Provides Handy Work Area	July	200
Build Hinged Baffle Plate Across Width of Mud Tank	Aug. 1	174
Weld Wire Line Clamp to I-Beam Clamp	Aug. 1	176
Help Cut Drilling Line With Hinged Plate Vise	Aug. 1	181
Skid-Mount Working Parts For Speed in Moving	Aug. 1	181
Unitize Manifold System for Mud Pumps	Aug. 1	183
Use Safety Devices for Small Drum Winches	Aug. 1	184
Build Sledge Pin Rack for Easy Checking and Carrying	Sept.	254
Rest Storage Tank Over Ditch	Sept.	254
Set Angle Iron Walkway On Skid Platform of Tank	Sept.	256
Improve Pipe Rack Design With 'T'-Shaped Member	Sept.	258
All-Steel Center Strip Stabilizes Pipe Walk	Sept.	258
Store Oil Measuring Cans Under Lubricant Tank	Sept.	259
Make Mud Tank Walkway From Angle Iron and Metal	Oct.	308
Build Belt Protection and Hand Tool Rack	Oct.	308
Install Hinge Type Hangers For Timesaver and Safety	Oct.	311
Hang Mud Test Equipment Over Edge of Steel Pits	Oct.	314
Skid-Mount Lubricant Tank For Easier Drum Handling	Oct.	314
Mount Small Service Parts on One Skid	Oct.	317
Equip Wooden Mats With Lifting Eyes	Oct.	317
Improve Hoist for Casing Head Parts	Nov.	229
Handle Shale Shakers With Catline or Gin Pole	Nov.	229
Mount Two Doghouses On a Single Skid	Nov.	230
Build Heater for Warmth and to Dry Clothing	Nov.	230
Attach Guard Rails To Save Rigging-Up Time	Nov.	232
Insure Rig Safety In Case of Bolt Failure	Nov.	232
Provide Pump Rod Lubricant Reservoir	Nov.	234
Build Portable Rack to Protect Drill Pipe	Nov.	234
Use Insect Flit Gun For Small Paint Jobs	Nov.	234
Removable Stops Ease Loading on Barge Rig	Nov.	236
Support Utility Shed On Folded I-Beam Braces	Nov.	236
Utilize Sleeping Sign For Weary Pusher	Nov.	236
Use Top of Mud Tanks for Working Area	Dec.	224
Provide Mud Ditch Catwalk With Grating	Dec.	224
Side Doors on Core House Allow Maximum Space Use	Dec.	224
Provide Convenient Stand For Drinking Water Can	Dec.	226
Meter Records Water Used in Mud Make Up	Dec.	226
Small Pump Sheave Guards Provide Adequate Safety	Dec.	228
Two Back-Up Lines Speed Round Trips	Dec.	229
Make Handy Tool Rack With Sucker Rod Material	Dec.	231
Use Shopmade Tool Hanger For Convenient Storage	Dec.	231
Save Drilling Materials From Weather Damage	Dec.	232
Make Mud Pit Crossover From Two Pipe Lengths	Dec.	232

ECONOMIC AND POLITICAL ARTICLES AND FEATURES

Subject	Title	Author	Issue	Page
Accounting.	Streamlined Accounting For the Small Producer.	Holiday Hayley	Feb. 1	43
	How to Get Full Value From Internal Auditing.	E. E. Faeschler	May	72
	Don't Overlook Possible Tax Savings.	John P. X. Stambaugh	May	68
Atomic Energy.	Atomic Energy Serves Oil Industry.	Allan C. Johnson	Feb. 1	48
Capital Expenditures.	Oil Industry Investment in U. S. Exceeds $50 Billion		Aug. 1	48
	How Tight Money Affects Oil Inudstry.	H. T. Brundage	Nov.	96
	How 15 Companies Handle Capital Expenditures.	G. E. Kiser	Dec.	88
Charts (See Petroleum Trends in U.S.).				
Company Operations.	Independents Big Factor: Majors Jockey for Rank.	L. J. Logan	June	100
	U. S. Firms Have More Foreign Than Domestic Oil Reserves		July	44
Completions (See Wells Completed).				
Costs.	Optimism Offshore		Feb. 1	62
	What's the Economic Limit? (in jet bit drilling equipment).	R. M. Boren	Feb. 1	106
	U. S. Drilling Costs Shoot Up Beyond 10,000-Foot Mark		Feb. 15	138
	General Wage-Price Hikes May Push Oil Prices Up.	L. J. Logan	May	82
	How the Cost of Finding and Producing Oil Has Increased		June	90
	Fringe Costs Must Be Considered.	W. K. Powell	Oct.	160
Courts (Also see Laws).				
Crude Oil.	Refinery Operations Expected to Average 7.75 Million Barrels Daily		Feb. 15	96
	U. S. Petroleum Reserves Indicate Slight Increase in '55 (Total Reserves in U. S. by Years and by States)		Feb. 15	116
	U. S. Crude Production by States and by Years		Feb. 15	152
	California Drilling Decline Blamed on Price of Crude		July	49
	New Peaks Ahead for U. S. Oil . . . Sharp Growth Seen Outside U. S.		Aug. 15	120
	Another Big Increase Occurs In World Crude Oil Reserves		Aug. 15	122
	U. S. Crude Production		Aug. 15	131
	World Crude Production, by Countries, 1954 and 1955, Cumulative Through 1955		Aug. 15	142
Demand.	Oil Industry Outlook for '56 Good		Jan.	62
	U. S. Supply and Demand . . . Will Require More Production of Crude and Natural Gasoline.	L. J. Logan	Feb. 15	74
	Oil and Gas Using Units Growth Means More Consumption of Oil and Gas		Feb. 15	94
	Oil Industry to Invest Billions		Mar.	61
	New Peaks Ahead for U. S. Oil . . . Sharp Growth Seen Outside U. S.		Aug. 15	120
	World's Demand for Oil Will Rise Sharply Within Next Five Years		Aug. 15	125
	5.4 Percent Gain in U. S. Demand Indicated		Aug. 15	129
	World Supply and Demand (by regions)		Aug. 15	149
	Oil Use to Increase Further in 1957.	Herbert Willetts	Nov.	77
	4% Increase in Demand Is Forecast for 1957.	E. T. Knight	Dec.	83
Discoveries (See Wells Completed).				
Drilling Activity (See Wells Completed).				
Earnings.	First Quarter Earnings Up 20.4% for 45 Oil Companies		June	89
	Second Quarter Earnings Up 15.4% for Oil Companies.	L. J. Logan	Sept.	78
	Nine Months Earnings Up 16.2% for 57 Companies.	L. J. Logan	Dec.	100
Electronics.	Direct Mail and Electronic Machines Replace Land Men in Unitization.	Anthony Gibbon	Sept.	80
Equipment.	Steel Supplies in U. S. To Increase Gradually.	Henry J. Wallace	Oct.	102
Exploratory Drilling (See Wells Completed).				
Exports.	Exports and Imports . . . Excess of U. S. Imports over Exports Due to Reach New High		Feb. 15	80
Finance.	Big Deal! (Atlantic Refining Company's Purchase of Houston Oil Company)		July	43
	Oil Industry Stocks Popular With Investment Companies		July	49
	Will the Banks Finance the Contractor?	Harold Vance	Oct.	179
	How Tight Money Affects Oil Industry.	H. T. Brundage	Nov.	96
Fuel Oil.	Locomotives Test Residual Fuel		May	78
Government (See Laws).				
Imports.	Exports and Imports . . . Excess of U. S. Imports over Exports Due to Reach New High		Feb. 15	80
	U. S. Imports to Be 12% Over 1955 Volume		Aug. 15	136
	Oil Scarcity Talk Discounted		Dec.	99
Independents.	Independents Big Factor; Majors Jockey for Rank.	L. J. Logan	June	100
	U. S. Independent Operators' Interest Abroad Is Growing. (Operators by Countries)		Aug. 15	138
Insurance.	Are Your Risks Insured?	George I. Terrel	Oct.	165
Investment.	Oil Industry to Invest Billions		Mar.	61
	Oil Industry Investments in U. S. Exceeds $50 Billion		Aug. 1	48
	U. S. Independent Operators' Interest Abroad Is Growing (Operators by countries)		Aug. 15	138
	How 15 Companies Handle Capital Expenditures.	G. E. Kiser	Dec.	88
Laws (Also see Courts).	84th Congress a Vital One for the Oil Industry.	L. Dan Jones	Feb. 15	98
	Gas Bill Veto Hurts Both Producers and Consumers.	L. J. Logan	Mar.	71
	Industry Divided Over Regulation by States		Mar.	78
	Californians Vote in November On Oil-Gas Conservation Bill		May	78
	Unfavorable Legislation Shows Why Business Must Make Itself Understood.	M. J. Rathbone	June	86
	Bartlesville Bureau of Mines Station Facing Cutback.	Anthony Gibbon	July	62
	On November 6 Americans Will Choose.	Don E. Lambert	Oct.	135
Liquefied Petroleum Gas.	LPG Sales Shatter all Records.	George R. Benz, Paul W. Tucker and W. F. DeVoe	Feb. 15	164
Looking Ahead.	Looking Ahead. Monthly 1-page feature giving forecast of oil industry developments. Beginning of Current Outlook section of magazine		Each Issue	
Management (Also see Human Relations Articles).	How Operations Research Aids Management.	Tage A. Mortensen	Nov.	80
	How 15 Companies Handle Capital Expenditures.	G. E. Kiser	Dec.	88
Markets.	Report from the Observatory. A monthly feature, in Current Outlook section of magazine. Analyzes petroleum industry's economic situation and markets.	Ray L. Dudley and Warren L. Baker	Each Issue	
Natural Gas.	Natural Gas Production 100 Miles from New York City?	H. T. Brundage	Feb. 1	49
	Natural Gas Reserves in U. S. in 1955		Feb. 15	123
	Natural Gas Output and Consumption Increases		Feb. 15	157
	Gas Bill Veto Hurts Both Producers and Consumers.	L. J. Logan	Mar.	71
	Fixing Field Prices of Gas Will Be Difficult.	Dr. Arthur A. Smith	Nov.	89
Natural Gas Liquids.	U. S. Petroleum Reserves Indicate Slight Increase in '55 (Total Production in U. S. by Years and by States)		Feb. 15	116
	Natural Gas Liquids Production in U. S. by States and by Years		Feb. 15	162
Natural Gasoline (See Natural Gas Liquids).				
Offshore.	Offshore Development Proving Successful.	Ira H. Cram	June	78
Operations Research.	How Operations Research Aids Management.	Tage A. Mortensen	Nov.	80
Petroleum (See Crude Oil).				
Petroleum Trends in U.S.	Petroleum Trends in U. S. Monthly feature. 2 pages of charts and tables in Current Outlook Section of magazine. Shows trends by months in crude oil production, runs to stills, and stocks; production and stocks of gasoline, distillate, and residual fuel oils; wells completed, footage drilled, and rigs running; and crude oil and total oil imports.	Cecil W. Smith	Each Issue	
Pipe.	New Welding Technique Cuts Failures on Tubular Goods.	J. R. Gregath	Nov.	105
	Pipe Scarcity Threatens to Curtail Drilling.	L. J. Logan, Anthony Gibbon and Gilbert M. Wilson	June	92
Prices (Also see Markets).	U. S. Crude Prices . . . Steady Trend or Slight Improvement Forecast for 1956		Feb. 15	84
	U. S. Gasoline Prices . . . Little Increase in U. S. Gasoline Prices		Feb. 15	89
	General Wage-Price Hikes May Push Oil Prices Up.	L. J. Logan	May	82
	California Drilling Decline Blamed on Price of Crude		July	49
	Fixing Field Prices of Gas Will Be Difficult.	Dr. Arthur A. Smith	Nov.	89
Producing Wells (See Wells Producing).				
Production (See Crude Oil, Natural Gas, Natural Gas Liquids).				
Proration.	Industry Divided Over Regulation by States		Mar.	78
Refining.	Refinery Operations Expected to Average 7.75 Million Barrels Daily		Feb. 15	96
Research.	Bartlesville Bureau of Mines Station Facing Cutback.	Anthony Gibbon	July	62
Reserves (Also see Crude Oil, Natural Gas, Natural Gas Liquids).	Deep Drilling In U. S. Is Disappointing.	George R. Hopkins	Mar.	61
	U. S. Firms Have More Foreign Than Domestic Oil Reserves		July	44
	Fluid Injection Expands U. S. Oil Resources.	L. J. Logan	July	46
	Growing Oil Use To Spur Development.	Edgar F. Bullard	Aug. 1	62
	Oil Scarcity Talk Discounted		Dec.	99
	Don't Overlook Oil Shale.	Earl Trager	Dec.	104
Rigs.	Wells Drilled by Rotary Rigs Total 86.5% in 1955		Feb. 15	131
	Rigs in Operation End Two-year Decline		Feb. 15	132
	Locations of U. S. Rigs (By States)		Feb. 15	134
	Penetration Rates (Footage per Rig Sets Record)		Feb. 15	136
	Drilling by Contractors Sets New Records		Feb. 15	145
	Contractor Rig Ownership Slightly More Than 4000 Rigs in U. S.		Feb. 15	148

ECONOMIC AND POLITICAL ARTICLES AND FEATURES—Continued

Subject	Title	Author	Issue	Page
Secondary Recovery.	Fluid Injection Expands U. S. Oil Resources	L. J. Logan	July	46
Shale Oil.	Shale Oil Soon May Compete with Crude.	Anthony Gibbon	Sept.	84
	What Union of California Is Doing About Shale Oil.	Gilbert M. Wilson	Sept.	86
	Don't Overlook Oil Shale.	Earl Trager	Dec.	194
Statistics (Also see Petroleum Trends in U. S.).	Salient Oil and Gas Statistics of U. S. for 1954 and 1955 and Forecasts for 1956		Feb. 15	72
Stocks (Also see Markets).	Oil Tanks Help Solve Wheat Storage Problem		Feb. 1	64
	U. S. Stocks of Oils . . . Favorable at Beginning of 1956		Feb. 15	90
	Better Management of Oil Inventories Is Needed.	L. F. McCollum	Nov.	75
Storage (See Stocks).				
Supply (See Demand).				
Tankers.	Tanker Men Are Proud Men.	George H. Hebert	Feb. 1	181
	Brisk Oil Trade Boosts Demand for Tankers.	H. T. Brundage	Aug. 1	50
	U. S. to Lose No. 1 Rank in Oil Shipping		Sept.	100
	Suez Canal is Blocked . . . Effect to Be Worldwide.	H. K. V. Tompkins	Dec.	76
	Tanker's Hole Looms Big in Oil Transport Picture.	W. Jamieson	Dec.	80
Tanks.	Oil Tanks Help Solve Wheat Storage Problem		Feb.	64
Taxes.	Don't Overlook Possible Tax Savings.	John P. Y. Stambaugh	May	63
	Most File Forms to Hold Down Partnership Operation Taxes		Oct.	128
Transportation.	Brisk Oil Trade Boosts Demand for Tankers.	H. T. Brundage	Aug. 1	50
Unitization.	Direct Mail and Electronic Machines Replace Land Men in Unitization.	Anthony Gibbon	Sept.	80
Uranium.	Uranium from Oil Flood Waters.	Anthony Gibbon	May	62
Use of Oil.	Oil and Gas Using Units Growth Means More Consumption of Oil and Gas		Feb. 15	94
	Growing Oil Use To Spur Development.	Edgar F. Bullard	Aug. 1	62
	World Is Becoming Highly Mechanized		Aug. 15	127
Wells Completed.	Monthly record of all wells completed in U. S., by States (1 page—table and comments—at end of Current Outlook Section of magazine)		Each Issue	
	Monthly record of exploratory wells completed in U. S., by states (1 page consisting of 2 tables and comments; presented at end of Current Outlook Section of magazine)		Each Issue	
	Wildcat Drilling . . . Record 11,767 Due to be Drilled in '56		Feb. 15	107
	Wildcatting Success . . . 1 out of Every 8 Wildcats in U. S. Continues to Find Production		Feb. 15	109
	U. S. Drilling Forecast Predicts New Peak in Wells and Footage (Forecasts of Drilling by Districts).	Warren L. Baker and Cecil W. Smith	Feb. 15	125
	Greatest Well Depths (By Areas)		Feb. 15	130
	Average Depth Per Well is 24 Feet Deeper than '52 Record		Feb. 15	130
	Wells Drilled by Rotary Rigs Total 86.5% in 1955		Feb. 15	131
	Wells Completed by Smaller Operators Total 78.1%		Feb. 15	131
	Another Big Gain in U. S. Drilling. Warren L. Baker and Cecil W. Smith		Aug. 15	122
	World Completions and Footage		Aug. 15	141
Wells Producing.	Artificial Lift (Trends in wells put on artificial lift)		Feb. 15	151
	Producing Oil Wells in U. S. Set New Mark		Feb. 15	172
	Producing Gas Wells in U. S., Yearly, Since 1920		Feb. 15	176
	Producing Depth Records Again Held in Louisiana		Feb. 15	180
	World Producing Wells		Aug. 15	150
Wildcats (See Wells Completed).				

EDITORIALS

Title	Explanation	Author	Issue	Page
Whose Job Is It?		Ray L. Dudley	Jan.	43
Critical Problems Face Oil Men.		Warren L. Baker	Feb. 1	89
Oil Outlook is Good.		Warren L. Baker	Feb. 15	71
What Will Labor Union Merger Mean?		Ray L. Dudley	Mar.	53
Actions Speak Louder than Publicity			April	79
Oysters or Ducks?		Rev. Kenneth W. Sollitt	May	59
Government Regulation Is Always Bad.		Warren L. Baker	June	77
Let the Public Know!			July	39
Public Relations Begin at the Top			Aug. 1	43
Middle East Oil Is Vital to Free World.		Warren L. Baker	Aug. 15	110
New Ownership of American Business.		Warren L. Baker	Sept.	77
U. S. Tax Burden Can Be Cut.		Warren L. Baker	Oct.	101
Any Monopoly is Bad			Nov.	71
Healthy Industry Imperative.		Ray L. Dudley	Dec.	75
Bottom-to-Top Opportunities			Dec.	75

EXPLORATION, GEOLOGICAL AND GEOPHYSICAL ARTICLES

Subject	Title	Author	Issue	Page
Alabama.	Prospects for Deep Drilling in Alabama.	Dr. Stewart J. Lloyd	Mar.	102
Anadarko Basin.	The Simpson Group . . . Along East Flank of the Anadarko Basin.	Ralph W. Disney and Charles B. Cronenwett	Sept.	113
	Significant Lower Paleozoic Finds in the Anadarko Basin.	Joseph A. Kornfeld	Nov.	107
Appalachian.	New Look is Needed in Appalachian Basin.	Herbert P. Woodward	Mar.	96
Arizona.	Arizona an Oil and Gas Producing State		Jan.	61
	Arizona . . . Boom or Bust?	Cloyd W. Swapp	July	80
Canada.	St. Lawrence Lowlands Drawing Renewed Interest.	M. Pincott	Sept.	246
Colorado.	Don't Overlook Shale Oil.	Earl Trager	Dec.	194
Continental Shelf (See Offshore).				
Costs.	How the Cost of Finding and Producing Oil Has Increased		June	90
Discoveries (See Economic Articles: Wells Completed).				
Earth Temperatures.	Surface Alteration Utilized in Structural Mapping—A Function of Earth Temperature.	Bernard H. Lasky	Nov.	123
	Earth Temperatures, Alteration Studies Reflect Subsurface Structure.	Bernard H. Lasky	Dec.	116
Electric Logs (See Well Logging).				
Exploration, Misc.	How do the Various Logging Devices Compare When Determining True Resistivity?	Maurice Martin and J. L. Dumanoir	July	95
Exploratory Drilling (See Economic Articles).				
Formation Identification.	Formation Samples Indicate Low Resistivity On Electric Log Could Mean "Chert".	A. H. Helm and H. W. True	Mar.	126
Geology.	How Microfilm Library Aids Research.	John Chronic	May	95
	Take a Look at Free World's 236 Major Oil Fields.	G. M. Knebel and Guillermo Rodrigues-Eraso	May	98
	Gulf Coast Tectonics.	Dr. Max Bornhauser	June	113
	Geological Students Go Underwater.	William F. Tanner	June	126
	How Deep Is Miocene Production In Southern Louisiana?		June	216
	Migration of Oil.	William C. Gussow	Aug. 1	79
	Time Accumulation and Evolution of Hydrocarbons.	William C. Gussow	Sept.	113
	The Simpson Group . . . Along East Flank of the Anadarko Basin.	Ralph W. Disney and Charles B. Cronenwett	Sept.	113
	Gyratory Sieving Speeds Research.	Dr. Robert H. Cummings	Oct.	137
	Sedimentary Basins In Oregon.	R. E. Corcoran	Oct.	140
	Significant Lower Paleozoic Finds in the Anadarko Basin.	Joseph A. Kornfeld	Nov.	107
	Generalized Unda Envoironment In Time and Space.	V. G. Gabriel	Nov.	130
Geophysical Crews.	Geophysical Crews: U. S. Had 662 Working Late in '55 as Activity Swings Up Again		Feb. 15	112
Geophysics.	Reefs are Hard to Find.	Richard A. Pohly	July	75
Gravity Meter.	Reefs are Hard to Find.	Richard A. Pohly	July	75
Gulf Coast.	Gulf Coast Tectonics.	Dr. Max Bornhauser	June	113
	Salt Dome Interest Centers on Gulf Const.	Dr. J. Brian Eby	Oct.	143
Kansas.	What the Hugoton Activity Means.	G. F. Thomas	Feb. 1	75
Library.	How Microfilm Library Aids Research.	John Chronic	May	95

EXPLORATION, GEOLOGICAL AND GEOPHYSICAL ARTICLES—Continued

Subject	Title	Author	Issue	Page
Literature.	How Microfilm Library Aids Research.	John Chronic	May	95
Louisiana, South.	How Deep Is Miocene Production In Southern Louisiana?		June	216
Magnetic Method.	New Method Indicates Productive Area.	Mark Milstein	Nov.	113
Major Fields.	Take a Look at Free World's 236 Major Oil Fields.	G. M. Knebel and Guillermo Rodrigues-Eraso	May	93
Migration.	Migration of Oil.	William C. Gussow	Aug. 1	79
Mineral Studies.	Surface Alteration Utilized in Structural Mapping—A Function of Earth Temperatures.	Bernard H. Lasky	Nov.	123
	Earth Temperatures, Alteration Studies Reflect Subsurface Structure.	Bernard H. Lasky	Dec.	116
Montana.	Take a Look at Montana's Genou Trend.	Andrew G. Alpha	Jan.	79
Nevada.	Exploration Continues in Nevada		Jan.	96
New York.	Natural Gas Production 100 Miles from New York City? H. T. Brundage		Feb. 1	40
	St. Lawrence Lowlands Drawing Renewed Interest.	E. Fancott	Sept.	246
	New York Discovery Being Developed.	Harriman T. Bundage	Oct.	110
North Dakota.	North Dakota's Nesson-Anticline. (Part 1)	W. M. Laird and C. B. Folsom	Mar.	89
	North Dakota's Nesson Anticline (Madison Problems Are Unusual) Part 2.	W. M. Laird and C. B. Folsom	June	136
Oceanography.	Generalized Unda Envoironment In Time and Space.	V. G. Cabriel	Nov.	130
Offshore.	Optimism Offshore		Feb. 1	62
	Offshore Development Proving Successful.	Ira H. Cram	June	78
	Geological Students Go Underwater.	William F. Tanner	June	126
	Offshore Operators Looks at Flossie's Damage.	Don E. Lambert	Nov.	73
	Areas of Interest in Marine Oil Prospecting.	T. R. Goedicke	Nov.	116
	New Techniques in Marine Geophysics.	T. R. Goedicke and E. B. Locke	Dec.	122
Oklahoma.	North Central Oklahoma Offers Good Possibilities.	Roger K. Patton	Jan.	86
	Mississiplian Production In The Osage.	J. A. Haynes, Jr.	Feb.1	85
	Revival in the Osage		Aug. 1	44
	The Simpson Group . . . Along East Flank of the Anadarko Basin.	Ralph W. Disney and Charles E. Cronenwett	Sept.	113
	Old Faithful Flows Again.	Anthony Gibbon	Oct.	108
	Significant Lower Paleozoic Finds in Anadarko Basin.	Joseph A. Kornfeld	Nov.	107
Oregon.	Sedimentary Basins In Oregon.	R. E. Corcoran	Oct.	140
Reefs.	Reefs Are Hard to Find.	Richard A. Pohly	July	75
Research.	How Microfilm Library Aids Research.	John Chronic	May	95
	Gyratory Sieving Speeds Research.	Dr. Robert H. Cummings	Oct.	137
Reserves (Also see Economic Articles).				
Rock Analysis.	Gyratory Sieving Speeds Research.	Dr. Robert M. Cummings	Oct.	137
Sedimentation.	Generalized Unda Envoironment In Time and Space.	V. G. Cabriel	Nov.	130
Seismograph.	Seismic Data Processing.	Hal T. Jones	Dec.	113
	Magnetic Tape Recording Gains Popularity.	Alan D. Waldie	Dec.	111
	Frequency Response.	Thomas O. Moore	Dec.	118
	New Techniques in Marine Geophysics.	T. R. Goedicke and E. B. Locke	Dec.	122
Shale Oil.	Don't Overlook Shale Oil.	Earl Trager	Dec.	124
Stratigraphic Traps.	What the Hugoton Activity Means.	G. P. Thomas	Feb. 1	75
Structure.	Surface Alteration Utilized in Structural Mapping—A Function of Earth Temperature.	Bernard H. Lasky	Nov.	123
	Earth Temperatures, Alteration Studies Reflect Subsurface Structure.	Bernard H. Lasky	Dec.	116
Vermont.	St. Lawrence Lowlands Drawing Renewed Interest.	E. Fancott	Sept.	246
Well Logging (Also see Drilling Articles).	How do the Various Logging Devices Compare When Determining True Resistivity.	Maurice Martin and J. L. Dumanoir	July	93
Wildcats (See Economic Articles).				
Williston Basin.	North Dakota's Nesson-Anticline. (Part. 1).	W. M. Laird and C. B. Folsom	Mar.	89
	North Dakota's Nesson Anticline (Madison Problems Are Unusual) Part 2.	W. M. Laird and C. B. Folsom	June	136
World.	Take a Look at Free World's 236 Major Oil Fields.	G. M. Knebel and Guillermo Rodrigues-Eraso	May	93
	Areas of Interest in Marine Oil Prospecting.	T. R. Goedicke	Nov.	116

HUMAN RELATIONS ARTICLES

(Employe Relations, Public Relations, Education, Health, Training, and Safety.)

Subject	Title	Author	Issue	Page
Automation.	Automation—Glamor Word of Industry.	M. L. Powers	Jan	56
Communications.	What's Wrong with Employe Communications?	Dr. Alan A. McLean	Oct.	114
Education (Also see Training).	Russian Government Is Giving No. 1 Priority to Education.	Dr. J. Brian Eby	Sept.	238
	More and Better Engineers Needed.	John M. Campbell	Oct.	112
Employe Relations.	Hiring is a Science.	Harold A. Edgerton	Jan.	52
	How Lone Star Gas Passes Authority Down.	M. B. Bird	Feb. 1	50
	How to Increase Presenteeism.	Auren Uris	Feb. 1	52
	Pin Pricks From Within (Internal employe relations).	William S. Wilcox	Mar.	57
	Blueprint For Retirement (Shell's program)		May	61
	25 Supervisors Say 'These Get the Job Done for Me'		May	64
	Who Is Listening to Non-Union Employes?	William S. Wilcox	June	95
	What Are We Doing About Middle Men of Management?	Joseph M. Trickett	July	52
	Human Relations Is a Two-Way Street.	Harry L. Kidd	Aug. 1	52
	What's Wrong With Employe Communications?	Dr. Alan A. McLean	Oct.	114
Employe Suggestion System.	How Can a Company Lose?	William S. Wilcox	Sept.	90
Health.	Nervous Tension Can Be Controlled		May	66
Labor.	Who Is Listening to Non-Union Employes?	William S. Wilcox	June	95
Lovington, New Mexico, Field.	Oil Boom On the Flat Plains.	Carl I. Huss	Oct.	105
Management.	Hiring is a Science.	Harold A. Edgerton	Jan.	52
	How Lone Star Gas Passes Authority Down.	M. L. Bird	Feb. 1	50
	How to Increase Presenteeism.	Auren Uris	Feb. 1	52
	Pin Pricks From Within (Internal employe relations).	William S. Wilcox	Mar.	57
	Filling the Ranks Poses Problems for Oil Industry.	E. L. K. Frost	Mar.	59
	Do You Give Orders Effectively?	Auren Uris	Mar.	65
	How to Get Full Value From Internal Auditing.	E. E. Fauchier	May	72
	25 Supervisors Say 'These Get the Job Done for Me'		May	64
	Nervous Tension Can Be Controlled		May	66
	Who Is Listening to Non-Union Employes?	William S. Wilcox	June	95
	What Are We Doing About Middle Men of Management?	Joseph M. Trickett	July	52
	Human Relations Is a Two-Way Street.	Harry L. Kidd	Aug. 1	52
	Needed: Engineers Qualified For Top Management.	David F. Tver	Aug. 1	55
	More and Better Engineers Needed.	John M. Campbell	Oct.	112
	How to Conduct a Successful Interview.	Dr. Harold A. Edgerton	Oct.	120
	Better Management of Oil Inventories Is Needed.	L. F. McCollum	Nov.	75
Public Relations.	What the Public is Saying About Us		Mar.	63
	Unfavorable Legislation Shows Why Business Must Make Itself Understood.	M. J. Rathbone	June	86
	Public Relations Begins at the Top		Aug. 1	43
	If Oil Could Speak		Dec.	192
Retirement.	Retirement Fad—Is It Good or Bad?	Allan J. Fleming and C. A. D'Alonzo	Sept.	90
Safety.	Check These 27 Rules For Safety in Fracturing		May	168
	When Storms Threaten		June	186
Training (Also see Education).	Filling the Ranks Poses Problems for Oil Industry.	E. L. K. Frost	Mar.	59
	Geological Students Go Under Water.	William F. Tanner	June	126
	What are we Doing About Middle Men of Management?	Joseph M. Trickett	July	52
	Needed: Engineers Qualified For Top Management.	David F. Tver	Aug. 1	55

INTERNATIONAL NEWS AND ARTICLES

Subject	Title	Author	Issue	Page
Aden.	Aden Refinery Ran Slightly Less Than Capacity in 1955		Aug. 15	368
Africa.	Benie Autonome Has Struck Oil		Feb. 1	177
	Abandon Deep Test on Island of Malta		April	322
	Other Africa—Three Coastal Discoveries Reward Exploration		Aug. 15	206
	Two Oil Pays in French Equatorial Africa		Nov.	220
Alaska.	Colorado Oil and Gas Corp. Has Received Exploration Rights in Fairweather Area		June	282
	Active Exploration Program Continues		Aug. 15	212
Albania.	Albania Claims 1955 Crude Output of 1,370,560 Barrels		Aug. 15	202
Algeria.	Compagnie de Recherches et d'Exploitation de Petrole Reports Wildcat Discovered near Libyan Border		May	224
	Oil Discovery Brightens Outlook		Aug. 15	211
	Oil Discovery in Central Algeria		Nov.	220
Angola.	First Oil Area Discovered		Aug. 15	211
Argentina.	Newest Well's Production Given		April	322
	Seek Bids for Pipe Line From Salta to Buenos Aires		June	282
	To Increase Production		Aug.	210
	Current Government Asks $250 Million to Rebuild Industry		Aug. 15	224
	Requests Bids to Import Oil		Nov.	220
Australia.	Santos Ltd. Drilling First Test Near Port Augusta		May	225
	Australian Aerial Survey Reports Near Completion. Harrison T. Brundage		June	268
	Sun Oil to Drill Test Well in Queensland		June	282
	Looks Forward to High Level of Operations		Aug. 15	211
	Exploration Continues in West, Oil Shows in Victoria		Aug. 15	200
Austria.	Wells Yield 2,172,580 barrels in August		Jan.	192
	1955 Trade Agreement with Rumania Extended		May	225
	Plan Natural Gas Pipe Line in Styria		June	282
	Threat of Nationalized Oil Industry Fades		Aug. 15	252
	Mineral Oil Administration To Spend $9.2 Million to Maintain Crude Production		Oct.	294
Bahamas.	Joint Marine Seismic Survey to Begin		May	225
	Exploration Licenses Go to Bahama National Oil Co.		Nov.	220
Bahrain.	14 Completions Hold Production Steady		Aug. 15	350
Barbados.	Barbados Gulf Oil Co. Has Reported Gas-Distillate Discovery		June	282
Belgium.	War-Ravaged Petrofina Now Consists of 56 Firms. H. T. Brundage		July	184
Bolivia.	Why Bolivian Prospects look Brighter. J. N. Bassoutt		May	215
	New Oil Law May Bolster Bolivia Economy. Cornelius H. Zondag		April	307
	Bolivia Wants Help, Ambassador Says. Anthony Gibbon		June	264
	Production Increase 50%		Aug. 15	210
	Crude Production Spirals Despite Lack of Outlets		Aug. 15	229
	Gulf Bolivia Subsidiary Will Conduct Exploration		Nov.	227
Borneo, British (Sarawak & Brunei).	Seria Field Increasing in Importance		May	225
	British Borneo Increasing Production		Aug. 15	374
Brazil.	Report yield for October		Jan.	192
	Announces Greatest Drilling Program		Aug. 15	210
	Petrobras Undertakes Record Exploration Program		Aug. 15	234
	3 Rigs, Exploration Parties Active in Remote Amazon. H. T. Brundage		Sept.	237
Bulgaria.	Bulgaria Invited by Russia to Join in Petroleum Industry Development		May	225
	Bulgaria Exploited But Not Assisted by Soviet Union		Aug. 15	206
Burma.	War-Ravaged Industry Boosts Crude Production		Aug. 15	362
	Refinery Being Constructed Near Rangoon		Aug. 15	211
Canada.	Canada: A Storied Past, a Bright Future. Ralph H. Gorman		Jan.	182
	Canu City Profile: Life in Bogota Is a Pleasant Interlude. J. F. Barbee		March	196
	Canu City Profile: Life in Barranquilla . . . Cultured and Conservative. James Joseph		Oct.	274
Canada.	Imperial Oil to Drill Wildcats in Quebec		Feb. 1	177
	Western Canada Faces Great Expansion		Mar.	76
	100 Geophysical Crews Operating in W. Canada		April	321
	Union Alberta Discovery Followed by Two Tests		April	321
	Sinclair Canada Oil Co. Has First Pembina Production		April	322
	Cremona Pipe Lines Ltd. Has Won Permit to Build Refinery Line at Calgary		May	225
	Canadian Oil Reserves Reach Peak in 1955		June	273
	Forty Five Gas Discoveries Were Made in Western Canada for 1st Quarter 1956		June	282
	Imperial Will Build New Oil Tanker for Seaway		July	188
	Canada Smashes All Records in '55		Aug. 15	155
	Saskatchewan Discovery Rate High		Aug. 15	156
	Pembina Highlights Alberta Activity		Aug. 15	156
	Economics Still Stalling Quebec Market Possibility		Aug. 15	158
	Gap Between MEit and Markets Widened		Aug. 15	159
	Alberta Paces Completions Gain		Aug. 15	160
	Spurt in the Southeast Saskatchewan		Aug. 15	161
	Weather, Terrain Affect Western Canada Drilling		Aug. 15	161
	Export Possibilities Cheer Natural Gas Producers		Aug. 15	163
	Exploration Fails to Keep Pace With Drilling Rate		Aug. 15	163
	Proration Situation Favors B. C. Drilling Over Alberta		Aug. 15	164
	Pembina Paradox		Aug. 15	165
	Breakdown of '55 Western Canada Discoveries		Aug. 15	168
	What's New in Canadian Drilling Rigs?	F. M. Valint	Sept.	156
	St. Lawrence Lowlands Drawing Renewed Interest. H. Fancott		Sept.	246
	Pressure Maintenance In the Golden Spike Pool. D. J. McEachern		Oct.	282
	New Gas Well Blew Wild on Gaspe Peninsula		Oct.	294
	Phillips Has a Big Stake in British Columbia Operations. Anthony Gibbon		Nov.	207
	First Wildcat Test is Drilling in St. Lawrence Lowlands		Nov.	220
Central America.	New Discoveries and Oil Code Spur Drilling Programs		Aug. 15	214
Chile.	Legislation May Increase Activity		Aug. 15	210
	Proposed Bill Would Open Chile to Foreign Capital		Aug. 15	236
China.	Crude Discovery In Chinghai Province		June	282
	Strong Bid for Important Position in World's Petroleum		Aug. 15	211
	Communists Set 33 Million Barrel-a-Year Goal by 1960		Aug. 15	381
Colombia.	Life in Bogota Is a Pleasant Interlude. J. F. Barbee		Mar.	196
	Peru and Colombia Pave Way for Private Capital. Dr. J. E. Rassmuss		Mar.	200
	Cities Service Will Seek Oil in Carare		June	263
	Mecom of Houston Provides Capital for Oil Venture in Tolu Bay		June	282
	Pipe Line One of the Roughest		July	182
	Secondary Recovery Program Holds Interest		Aug. 15	211
	Three Factors Help Oil Industry		Aug. 15	259
	Life in Barranquilla Cultured and Conservative. James Joseph		Oct.	274
	Consider Construction of Oil Pipe Line		Nov.	220
Costa Rica.	Union's Well May be Significant		April	320
	Union Oil Brings Major Find		Oct.	298
Cuba.	Siboney Development & Exploration Co. to Drill First Well		Jan.	192
	Crude Production Figures Given		Feb. 1	177
	Atlantic Refining is Drilling Wildcat		May	225
	Cuban American Gas Well Tests at 5 MMCF		May	232
	Cuban American Drilling Co. Abandons One Well and Drills Ahead on Two Other Wells		June	282
	Cuban American Brings In 800-1000-Barrel Producer. Don Kliewer		Aug. 1	161
	Test Drilled South of Jatibonico		Aug. 15	210
	Private Enterprise Catapults Crude Production 568 Percent		Aug. 15	216
Czechoslovakia.	Crude Production Below the Quota		May	225
	Czech Oil Suffers Through Lack of Russian Interest		Aug. 15	198
Denmark.	Danish-American Prospecting Co. Begins Effort to Find Oil in North Scaland		June	282
	Standard Oil Interests Seek to Take Over Gulf Concessions		Aug. 15	256
Dhofar.	Dhofar-Cities Service Petroleum Corp. Operates Concession		Aug. 15	353
	Second Wildcat Test in Dhofar Abandoned		Oct.	294
Ecuador.	Protests Lodged with Peru and Canada		Jan.	192
	Manabi Reports Crude Production		Mar.	202
	New Refinery to Be Constructed		Aug. 15	211
	Reserves at 25 Million Barrels		Aug. 15	240
Egypt.	Discovery Well Has Second Zone		Feb. 1	177
	Arab League Spokesmen Back Four Proposals		Feb. 1	178
	Egyptian-American Now to be as Sahara Petroleum		Feb. 1	180
	Will Drill Wildcat Between Alexandria and Cairo		April	322
	Southern California Petroleum Corp. Has Contract to Drill in Egypt		May	225
	Sahara Petroleum's Wildcat is Drilling Ahead		June	284
	Improves Atmosphere for Private Capital		Aug. 15	211
	1945 Oil Law Reversal Reflects Heightened Activity		Aug. 15	236
	Suez Dispute—A Case of Double Jeopardy. Don E. Lambert		Sept.	82
	Suez Canal Is Blocked . . . Effect to Be Worldwide. H. K. V. Tompkins		Dec.	76
Ethiopia.	Sinclair Drilled Seven Tests		Aug. 15	360
France.	Parentis Is Fast Developing Into Major European Field		Feb. 1	172
	Societa des Petroles de Valence Gets Exploration License for West Edge of Alps		April	322
	Societe Francaise des Petroles BP Has Ordered New Tanker		May	225
	Parentis Oil Field is Developed Into Major Reserve		Aug. 15	211
	Parentis Production Up		Aug. 15	259
Geology.	Areas of Interest in Marine Oil Prospecting. T. R. Goodicke		Nov.	116
Germany, East.	Reports Crude Production		Feb. 1	177
	Crude Output Estimated		May	225
	Natural Gas East Germany's Brightest Immediate Hope		Aug. 15	200
Germany, West.	Wildcat Drilled by Deutsche Vacuum Oel AG		Jan.	192
	Total Footage Announced		Mar.	202
	Announce Total Footage and Production Figures		April	322
	Wildcat in Upper Rhine Valley Has Discovered Natural Gas		May	225
	Matzen-Auerathal Is Called Western Europe's No. 1 Field. A. M. Stahmer		June	270
	First Discovery Made in Lower Weser River District		June	284
	189-Barrel-a-Day Well Completed		July	188
	Number of New Fields Discovered		Aug. 15	211
	Oil Industry Enjoys Growing Prosperity		Aug. 15	264
	Wildcat Discovery		Oct.	298
Great Britain.	Egmanton Find Encouraging		Aug. 15	270

INTERNATIONAL NEWS AND ARTICLES—Continued

Subject	Title	Author	Issue	Page
Greece.	Wildcat Reaches 8000 Feet in East Thrace		Jan.	192
Guatemala.	91 Exploration Bids Filed Under New Guatemalan Law.	Don Kliewer	Jan.	180
	Sohio Caribbean to Conduct Exploration		Jan.	192
Haiti.	Second Prospect to Be Drilled		Mar.	202
Honduras.	Mocora Group Acquires Area; Test Begun		April	320
Hungary.	Exploratory Work Being Expanded		May	225
	Hungary's 1955 Crude Output Best Year.	Veritas	Aug. 15	188
	Hungarian Paper States Nagylengyel Oil Field Ruined		Oct.	294
	Hungary Producing Most of Its Domestic Oil Needs		Dec.	213
India.	Survey Operations Being Conducted		Jan.	192
	Drilling Program Continuing		Feb. 1	177
	Assam Oil to Spud in Moran Well		April	322
	Aeromagnetic Survey is Being Sponsored by Government		May	225
	Assam Oil Has Discovered Oil at Nahorkatiya		June	284
	U. S. Oil Industry Called Answer to Indian Problem.	Henry Carter Rea	July	173
	Assam Oil Completes Nahorkatiya Producer		July	188
	Increasing Interest In Exploration		Aug. 15	211
	Assam Concentrates Exploration in Upper Brahmaputra Valley		Aug. 15	302
	Russian Oil Delegation to India Issues Report		Dec.	216
	Dry Hole Limits Border Of Nahorkatiya Oil Area		Dec.	216
Indonesia.	Strike Resulting in Production Loss		Jan.	192
	Standard-Vacuum Mans Expansion		Mar.	202
	Crude Production Rose Steadily		Aug. 15	211
	Steadily Increasing Production		Aug. 15	374
	Pollies Holds Key to Future Oil Progress.	H. T. Brundage	Nov.	210
	Negotiations Toward Renewal of Operations in North Sumatra		Nov.	220
Iran.	National Iranian Oil Co. Assumed Medical and Health Services		April	322
	Consortium to Attempt Increase In Production		Aug. 15	211
	On Road to Recovery		Aug. 15	302
	Iranian Consortium Reported July Production at 900,000 BPD		Oct.	294
	Wildcat is Reported a Gusher		Oct.	209
	Iranian Government Plans for Technological Institute at Teheran		Nov.	220
	What's the Significance of Iranian Discovery?	Don Kliewer	Dec.	206
Iraq.	Mosul Petroleum Co. Discovered Oil at Sassan Wildcat		June	284
	Crude Production Mounts		Aug. 15	211
	Entire Country Under Concession, Boost Production		Aug. 15	310
	Iraq Petroleum Co. Reportedly Paid Iraq Over $100 Million First Half of 1956		Oct.	294
Israel.	Oil Activity Heightens		Jan.	197
	Drilling Equipment to Arrive Soon		Feb. 1	177
	Heleta 2 Showed Oil		May	225
	Geologist Finds New Data on Israel Encouraging		June	280
	First Well Completed at Heleta		Aug. 15	355
Italian Somaliland.	Sinclair Somal Corp. Will Drill Deep Test		May	225
Italy.	Ente Nazionale Idrocarburi Reported Negotiating with Cities Service over Exploration in Po		Jan.	192
	Monopoly Agencies Extending Interests Abroad		Jan.	197
	Petrosud Is Continuing Italy Drilling Operations		May	230
	Italy—Future Oil Reservoir of Europe.	Carl H. Savit	Aug. 1	84
	AGIP Completes 2 Gas Wells on Mt. Etna Flanks.	M. T. Brundage	Aug. 1	169
	New Oil Code Voted		Aug. 15	211
	Future Development In Question		Aug. 15	274
	33 Exploration Permits to Be Granted By Italy		Dec.	213
Jamaica.	Extensive Exploration Program to Begin		Mar.	202
	Jamaican Stanolind to Spud in Its First Test		May	230
	Stanolind Makes Exploratory Test		Oct.	300
Japan.	Good Producer in Akita		Feb. 1	177
	Successful Wildcat Drilled		Aug. 15	211
	To Increase Exploration Activity		Aug. 1	366
	German Seismic Team Begins Operation in Japan		Oct.	296
	Japan Stepping Up Drilling Program and Conservation.	A. B. Waters	Dec.	203
Jordan.	Exploration Concession Goes to U. S. Independent		Jan.	192
	Concession Negotiations Completed		Aug. 15	356
Kuwait.	Major Strike Confirmed		April	321
	Regained Top Position in Crude Production in Middle East		Aug. 15	211
	Production Outdistances Saudi Arabia's		Aug. 15	316
	Production for July Given		Oct.	296
	Tanker Company Formed		Nov.	220
Latin America.	Most of Latin America Being Mapped by U. S.		Oct.	303
Lebanon.	A. S. Onassis May Invest in Exploration in Lebanon		Nov.	220
Libya.	Ohio Oil Co. Negotiating for Concessions		Jan.	192
	California Asiatic to Undertake Geophysical Survey		Feb. 1	177
	D'Arcy Granted Libyan Concessions		June	278
	Grants More Oil Exploration Concessions		Nov.	222
Malta.	British Petroleum Co. Has Conducted Geophysical Surveys Over Malta		May	225
Mexico.	Reports August Crude Production		Jan.	192
	Area Found in Lower California		Jan.	194
	Salt Dome Located Near Cuchillo Parado		Feb. 1	177
	Pemex Outlines Program To Increase Production		April	321
	Pemex Uncovers New Field of the New Golden Belt		June	278
	Mexico Steps Up Booming Oil Activity.	Don E. Lambert (interviewing Antonio J. Bermudez)	July	49
	Oil Exceeded Record Pace		Aug. 15	210
	First Half of 1956 Outdistances 1955 Pace		Aug. 15	212
	Members Attending Geological Congress Given		Oct.	209
	Announce Major Increase in Production		Nov.	227
Middle East.	Middle East Oil Is Vital to Free World.	Warren L. Baker	Aug. 15	119
	World Crude Production More Than Doubled . . . Middle East Helps Boost 1955 Figure		Aug. 15	143
	Concessions Dot Area		Aug. 15	356
	Suez Dispute—A Case of Double Jeopardy.	Don E. Lambert	Sept.	83
	Middle East Said to Agree With Trans-Arabian Pipe Line Co.		Oct.	296
	Suez Canal Is Blocked . . . Effect to Be Worldwide.	H. K. V. Tompkins	Dec.	76
	Tanker's Role Looms Big In Oil Transport Picture.	W. Jamieson	Dec.	80
Morocco.	SCP Finds 5 New Oil Areas In Morocco During 1955.	Maurice Moyal	July	176
	Discover New Oil Sources		Aug. 15	211
	SFC Discoveries Generate Optimism		Aug. 15	291
Netherlands.	Contract for Three-Year Drilling Program		April	322
	Two Oil Discoveries Made		Aug. 15	211
	NAM Breaks Crude Production Records		Aug. 15	282
	Encouraging Gas Show Reported at Ijsselmonde		Oct.	294
Neutral Zone.	Pacific Western Oil Corp. Estimates Crude Reserves		May	225
	Crude Productions Climb		Aug. 15	211
	Exploration Takes Downturn as Drilling and Production Rise		Aug. 15	324
New Zealand.	British Selling Share of British Petroleum Co. of New Zealand		Jan.	194
	British Petroleum Ltd. Will Prospect East Coast		Oct.	296
	Agreement		May	225
	Crude Yield Falls; Search Quickens		Aug. 15	274
	British Peroleum Ltd. Will Prospect East Coast		Oct.	296
News.	A World of Oil. Oil Industry news from many countries outside U. S. Published in some but not all issues in International Section of magazine.	Don Kliewer	Some Issues	
Nigeria (West Africa).	Nigeria—the never-ending search for oil.	V. S. Swaminathan	Feb. 1	168
Oman.	Petroleum Development Erected Rig on Arabian Peninsula		Aug. 15	359
Pakistan.	Stanvac Exploring 20,000 Square Miles in Pakistan.	H. T. Brundage	Jan.	179
	To Extend Gas Pipe Line		Feb. 1	177
	Pakistan Oil Fields Ltd. Has Drilled Test Well at Kargal		May	225
	Increased Use of Sui Natural Gas Forecast		May	228
	Pakistan Petroleum Ltd. Continues Operations on Khairpur Dome		June	284
	Stanvac Stakes Location For Test		July	188
	Year Bright in Phase of Exploration		Aug. 15	211
	Wildcat Spudded In as Search Continues		Aug. 15	282
	Pakistan Petroleum Co. Making New Test		Oct.	296
	Plans to Use Sylhet Gas In East Pakistan Discussed		Dec.	216
Panama.	New York Firm Acquires Major Concession		Dec.	219
Papua (Australian Territory, S¼ of E¼ of New Guinea).	Blowout First Stanvac Discovery in Papua		May	230
	Australian Petroleum Co. Makes New Test		Oct.	296
	Associated Freney Oilfields to Explore in Papua		Nov.	220
Paraguay.	Productionless Paraguay May Provide Outlet Route for Bolivian Crude		Aug. 15	240
Peru.	TexPet's Peru Exploration Is Unique and Costly Operation.	H. T. Brundage	Feb. 1	165
	To Drill Wildcat Tests in Sechura Desert		Feb. 1	177
	Peru and Colombia Pave Way for Private Capital.	Dr. J. E. Rasmuss	Mar.	200
	Skiles Oil Corp. Opens Branch Office at Lima		Mar.	202
	Report Increase in Crude Production		April	322
	Texas Petroleum Co.'s Second Well Was Drilling at 8941 Feet		May	225
	Search Concentrates in Montana		Aug. 15	242
	Amotape Oil Co. Completed Two Wells		Nov.	220
Philippines.	California Asiatic Has Obtained Concessions		Feb. 1	178
	Stanvac Acquires 8 Luzon Exploration Concessions		April	321
	Exploration Concessions to Hold Interest		Aug. 15	211
	Proposed Law Encourages Exploration		Aug. 15	356
Poland.	USSR Draws Poland Into 'Zonal' Planning.	Dr. G. G. Rosu	Aug. 15	191
Portugal.	3rd Mobil Portugal Test Readied; No. 2 Abandoned		July	188
Qatar.	Production Rises 18.8 Percent		Aug. 15	327
Reserves.	Take a Look at Free World's 236 Major Oil Fields.	G. M. Knebel and Guillermo Rodriguez-Eraso	May	93
	U. S. Firms Have More Foreign than Domestic Oil Reserves		July	44
Rumania.	2 New Discoveries Drilled		Feb. 1	178
	Rumania Ready to Negotiate War Claims		June	278
	Gamma Ray Logging in Rumania		July	178
	Rumania Plunges Into Red 'Leftovers'.	Don Kliewer	Aug. 1	162
	Rumania Petroleum Industry Faces Burdensome Future		Aug. 15	194
Salt Domes.	Salt Dome Interest Centers on Gulf Coast.	Dr. J. Brian Eby	Oct.	113

INTERNATIONAL NEWS AND ARTICLES—Continued

Subject	Title	Author	Issue	Page
Saudi Arabia.	Crude Output Reported		Jan.	194
	Arabian American Oil Gives Production Figures		April	322
	Crude Production Announced		May	225
	Arabian American Has Commenced Crude Line to Ras Tanura Refinery		June	284
	New Crude Reserve Reported		Aug. 15	211
	Crude Production and Industry Development Continue to Rise		Aug. 15	329
Sicily.	Drilling Operations Continue		Jan.	194
	Ragusa Field Producing 6500 Bls. Daily		June	284
	Production Rises, Moves to Mt. Etna		Aug. 15	278
	Full Scale Ragusa Field Development, Production Drawing Near		Dec.	216
Somaliland (Br. Protectorate), N. E. Africa.	'Beaching' Equipment for Somalia Wildcat		Aug. 1	171
	Conorada Petroleum Corp. Continued Exploration		Aug. 15	300
Spain.	Spanish Co. May Engage in Operations in Venezuela		Jan.	194
	General American to Continue Spanish Search		Feb. 1	180
	Oil Exploration by Valdebro in Spain. Juan Gayula and Earle F. Taylor		April	316
	10 Wildcats Completed		Aug. 15	280
Sumatra.	Cold-Weather Pipelining Solves Hot-Weather Problems		April	320
	Problem-Ridden Minas Field Now Producing 65,000 BPD		Oct.	273
Syria.	Exploration Permits Granted		Aug. 15	360
Taiwan (Formosa).	Small Crude Production Found		Aug. 15	211
	Government-Owned Firm to Test Deeper Prospects		Aug. 15	400
Tanganyika (East Africa).	D'Arcy Shell Abandoned Well, and Made Deep Test		Aug. 15	300
Trinidad.	Three Wells Completed		Aug. 15	210
	New Discovery in Gulf of Paria Highlights 1955		Aug. 15	213
	Negotiations Continue Between Colorado Oil & Gas and Trinidad Petroleum Development Co.		Nov.	220
	Texas Company Acquires Most of Trindad Company		Dec.	218
Trucial Coast.	Active Exploration Carried On		Aug. 15	356
	Abu Dhabi to Have Test Well Offshore		Oct.	294
Tunisia.	Country's Lone Gas Discovery Ups Reserves		Aug. 15	292
	Encouraging Results from Drilling		Nov.	222
Turkey.	14 Licenses OKed		Feb. 1	180
	New Concessions Granted to 12 Companies		June	280
	Deilmann Co. Has Discovered Oil Structure in Eastern Turkey		June	284
	Bona Chica Awarded 5 Oil Permits		July	188
	New Exploration Concessions Granted		Aug. 15	211
	Revised Oil Law, Banner Production Reported in 1955		Aug. 15	352
	Plans of Bolsa Chica Oil Corp. Await Surveys		Oct.	298
United Kingdom.	Equipment Orders in Britain 18% Rise		Nov.	222
Uruguay.	Trade Pact With Bolivia Signed		Aug. 15	244
U. S. S. R.	Russia Sold Shares in Sovrom Petrol to Romania		Feb. 1	178
	Soviet Says Its Drilling, Crude Yield, Reserves Up. A. J. Steiger		Mar.	195
	Russia Says 1955 Crude Yield 1,365,000 BPD		May	230
	Rise in Crude Output Forecast		June	284
	Russia To Send Big Delegation to Geological Congress		Aug. 1	167
	How Oil Production in Russia Has Gained Since World War II. Dr. J. Brian Eby		Aug. 15	174
	Here Are Recent Oil Field Discoveries in Soviet Union		Aug. 15	177
	Big Natural Gas Expansion Planned in Soviet Union		Aug. 15	179
	Russian Plan Falters as Drilling Speed-Up Ordered		Aug. 15	180
	Sixth Five-Year Plan Calls for Expansion		Aug. 15	185
	USSR Draws Poland Into 'Zonal' Planning. Dr. G. G. Rosu		Aug. 15	191
	Russian Government Is Giving No. 1 Priority to Education. Dr. J. Brian Eby		Sept.	238
Venezuela.	Caracas: A Storied Past, a Bright Future. Ruth H. Gorman		Jan.	183
	Crude Production Reported		Jan.	191
	Fiat and Innocenti firms of Italy to Build Steel Plant in Orinoco Valley		April	322
	How TexPet Uses Radio in Venezuela. Willard W. Grant		May	220
	Crude Production Announced and Plans for Bridge Across Maracaibo Channel		May	223
	Longest Submarine High Voltage Cables Being Laid		June	280
	Creole Budget Underscores Interest in Conservation		June	280
	Creole To Build Crude Line from Bachaquero to Lagunillas		June	284
	All Petroleum Phases Reflect Increases		Aug. 15	211
	First Concessions Granted in 12 Years		Aug. 15	247
	Mene Grande Gets Five More Concessions		Oct.	298
	Venezuela Syndicate Increased Output		Nov.	222
	New Deep-Water Channel In Venezuela to Be Dedicated		Dec.	203
	New Deep Oil Discovery in East Venezuela Reported		Dec.	213
World.	Socony Reorganizes Foreign Operations		Jan.	194
	World Crude Production to Continue Growth (by Countries and by Years)		Feb. 15	185
	Drilling Outside U.S. to Scale New Peaks		Feb. 15	190
	Photogeology Permits Rapid Mapping of Wide Areas. Lawrence Erundall		April	310
	Take a Look at Free World's 236 Major Oil Fields. G. M. Knebel and Guillermo Rodriguez-Eraso		May	93
	Valuation Problem Abroad Is Described		May	223
	U. S. Firms Have More Foreign Than Domestic Oil Reserves		July	44
	Another Big Increase Occurs In World Crude Oil Reserves		Aug. 15	122
	World's Demand for Oil Will Rise Sharply Within Next Five Years		Aug. 15	125
	U. S. Independent Operators' Interest Aboard Is Growing		Aug. 15	128
	World Crude Production, by Countries, 1954 and 1955, Cumulative Through 1955		Aug. 15	143
	World Supply and Demand (by regions)		Aug. 15	149
	World Producing Wells		Aug. 15	150
	World's Deepest Wells		Aug. 15	151
	Warehouses Are Nerve Centers of Operation		Aug. 15	152
	Salt Dome Interest Centers on Gulf Coast. Dr. J. Brian Eby		Oct.	143
	Areas of Interest in Marine Oil Prospecting. T. R. Coedicke		Nov.	116
	Suez Canal Is Blocked . . . Effect to Be Worldwide. H. K. V. Thompkins		Dec.	76
	Tanker's Role Looms Big in Oil Transport Picture. W. Jamieson		Dec.	80
Yemen.	Grants First Exploration Concession		Mar.	202
	D'Arcy Exploration Has Obtained Exploration License		May	223
	Becomes Important to Oil World		Aug. 15	353
Yugoslavia.	Accelerates Its Exploration Activity Rate		Aug. 15	294
	Wildcat Discovers Gas		Oct.	300
Zanzibar.	Well Spudded in May on Zanzibar Island		Oct.	294
	BP-Shell Joint Test Is Drilling Ahead		Nov.	218

MISCELLANEOUS ARTICLES AND FEATURES

Subject	Title	Author	Issue	Page
Atomic Energy.	Atomic Energy Serves Oil Industry. Allan C. Johnson		Feb. 1	46
Interviews.	What's the Outlook in Canada? Theo. A. Link interviewed by Gilbert M. Wilson		April	168
	Bolivia Wants Help. Victor Andrade Interviewed by Anthony Gibbon		June	264
	Mexico Steps Up Booming Oil Activity. Don M. Lambert (Interviewing Antonio J. Bermudez)		July	40
	Significance of Iranian Discovery. A. H. Farjam Interviewed by Don Kliewer		Dec.	206
Looking Ahead, Looking Ahead.	Monthly feature giving forecast of oil industry developments. Beginning of Current Outlook section of magazine		Each Issue	
Warehousing.	Warehouses Are Nerve Centers of Operation		Aug. 15	152

PRODUCTION ARTICLES

Subject	Title	Author	Issue	Page
Artificial Lift.	Texas with Estimated 9781 to Lead in Wells on Artificial Lift		Feb. 15	151
	How You Can Control Lifting Costs. H. L. Bilhartz		Aug. 1	125
Calculations.	Nomographs Make Reservoir Estimates Quick and Easy. Keith D. Sheppard		July	148
Cementing (Also see Drilling Articles).	What Causes Primary Cement Failures? G. C. MacDonald		Aug. 1	115
Completion Practices.	All's Well on this Flowing Well. K. H. Gibson		Feb. 1	138
	Why Not Use a Tubing Gun? (An Interview with G. H. Tausch)		Dec.	173
Corrosion.	How to Sell Corrosion Control to Management. J. C. Spalding, Jr.		Jan.	170
	Application of Organic Inhibitors in Water-Flooding. J. B. Robinson		Feb. 1	156
	Cathodic Protection in Action. J. P. Barrett and E. D. Gould		Mar.	149
	How to Get Most From Your Inhibitor. W. C. Koger		Mar.	167
	Metalizing Helps Lick Gulf Coast Corrosion. F. W. Gartner, Jr.		June	220
	Cathodic Protection Reaches Up to Cover the Splash Zone. Maurice A. Riordan		June	250

PRODUCTION ARTICLES — Continued

Subject	Title	Author	Issue	Page
Costs.	How to Sell Corrosion Control to Management.	J. C. Spalding, Jr.	Jan.	170
	How to Trim Maintenance Costs on Beam-Type Units.	W. R. Clarke	Mar.	185
	How the Cost of Finding and Producing Oil Has Increased		June	99
	How You Can Control Lifting Costs.	H. L. Bilhartz	Aug. 1	125
Directional Wells.	Directional Drilling for Salt Dome Oil Production.	K. R. Joynt and A. H. Mussad	June	192
Disposal Wells.	Effect of Tubing Size on Disposal Well May Be More Than You Think.	F. M. Carroll and G. H. Calhoun	Nov.	182
Electrification.	Don't Short Circuit Your Offshore Operation.	O. E. Lundelius, Jr.	June	226
	How You Can Control Lifting Costs.	H. L. Bilhartz	Aug. 1	125
	Why the Trend Toward Electrified Leases?	J. H. Day	Dec.	169
Flood Control.	Modern Ark Thwarts the Floods.	W. M. Saxon and J. R. Weyler	Oct.	227
Flow.	Applying Van Everdingen and Hurst Solutions to Natural Gas Flow Problems.	David Cornell	Feb. 1	134
	Your Well's Minimum Rate of Flow.	G. P. Colinos	Nov.	171
Fluid Injection.	Fluid Injection Expands U. S. Oil Resources.	L. J. Logan	July	46
Formation Analysis.	Formation Evaluation—Is It Worthwhile?	Harold T. Wright and L. D. Woodly, Jr.	Mar.	154
	How to Identify Clay Minerals . . . and Why.	John F. Noonan	Dec.	186
Formation Fracturing.	What Size Fractures?	Reese G. Clark	May	159
	What Fracturing Has Done for San Juan Basin.	B. C. Taylor	May	164
	Check These 27 Rules For Safety in Fracturing		May	168
	Perforating 'Around the Corner.'	Raymond L. Doyle	May	170
	Planning a Fracture in a New Area	G. L. Core	May	174
	Reservoir Scientists Seek Answers to Fracturing Phenomena		May	178
	What to Expect From Elliptical Fractures.	Paul B. Crawford and Denton R. Wieland	May	182
	Do Horizontal Fractures Affect Production Capacity?	Paul B. Crawford and Bobby L. Landrum	May	196
	Panhandle Gas Well Fracturing Pays Off.	R. D. Davidson	Aug. 1	130
	Old Faithful Flows Again.	Anthony Gibbon	Oct.	103
	How Vertical Fractures Affect Cycling Program.	Paul B. Crawford, Baxter Honeycutt, James Sanderlin and Henry Ince	Oct.	245
Gas Cycling (Also see Water Flooding).	How Vertical Fractures Affect Cycling Program.	Paul B. Crawford, Baxter Honeycutt, James Sanderlin and Henry Ince	Oct.	245
Gas Injection.	Put Your Stored Gas To Work . . . at a Profit.	A. B. Cook, R. H. Coulter, Jr., G. B. Spencer, T. M. Chin, and W. C. Elliott, Jr.	July	135
	High Pressure Gas Injection Is a Success.	H. A. Koch, Jr.	Oct.	269
Gas Lift.	Artificial Lift (Trends in wells put on artificial lift)		Feb. 15	151
Gas Wells.	Panhandle Gas Well Fracturing Pays Off.	R. D. Davidson	Aug. 1	130
Gulf Coast.	Placos Junction Is Hottest Spot on Texas Gulf Coast.	Charles Hopkins	June	205
	How Deep Is Miocene Production In Southern Louisiana		June	216
	Metalizing Helps Lick Gulf Coast Corrosion.	R. W. Gurney, Jr.	June	220
	Louisiana's Pine Island . . . Chalk Rock Proving Ground.	C. R. Jordan	June	240
Louisiana.	How Deep Is Miocene Productoin In Southern Louisiana?		June	216
	Louisiana's Pine Island . . . Chalk Rock Proving Ground.	C. R. Jordan	June	240
LPG.	How Anchor Recovers 97% of LPG Stored Underground.	Stuart G. Branyan	Feb. 1	147
Maintenance.	How to Trim Maintenance Costs on Beam-Type Units.	W. R. Clarke	Mar.	185
Natural Gas.	Applying Van Everdingen and Hurst Solutions to Natural Gas Flow Problems.	David Cornell	Feb. 1	134
Offshore.	Optimism Offshore		Feb. 1	62
	Don't Short Circuit Your Offshore Operation.	O. E. Lundelius, Jr.	June	226
	Cathodic Protection Reaches Up to Cover the Splash Zone.	Maurice A. Riordan	June	250
	Offshore Operators Look at Flossie's Damage.	Don E. Lambert	Nov.	73
Paraffin Control.	Why Not Dissolve Your Paraffin Problem?	Buford Cranford	Oct.	236
Perforating.	Why Not Use a Tubing Gun?	G. H. Tausch	Dec.	178
Pressure Maintenance.	Pressure Maintenance In the Golden Spike Pool.	D. J. McEachern	Oct.	232
Production Practices.	What About Variable Cycle Pumping?	Newton W. Wickersham	Aug. 1	135
Pumping.	A Full Three-Dimensional Picture that Puts Pumping Well Problems in Focus.	Douglas O. Johnson	Jan.	137
	What to Do About Sucker Rod Failures.	A. A. Hardy	Feb. 1	129
	Artificial Lift (Trends in wells put on artificial lift)		Feb. 15	151
	How to Get Most From Your Inhibitor.	W. C. Koger	Mar.	167
	How to Trim Maintenance Costs on Beam-Type Units.	W. R. Clarke	Mar.	185
	Looking over the Long-Stroke Hydraulic Pumping Unit.	Douglas M. Jones	July	153
	How You Can Control Lifting Cost.	H. L. Bilhartz	Aug. 1	125
	What About Variable Cycle Pumping?	Newton W. Wickersham	Aug. 1	135
	Modern Ark Thwarts the Floods.	W. M. Saxon and J. R. Weyler	Oct.	227
	Solve Your Own Pump and Rod Problems.	Tom H. Fraser	Nov.	176
	Simplify Your Calculations.	John C. Sloaneger	Nov.	191
	How to Operate and Maintain Hydraulic Surface Pumping Units.	F. C. Cummings	Nov.	195
	Solve Your Own Unit Pumper and Prime Mover Problems.	Tom H. Fraser	Dec.	167
	Why the Trend Toward Electrified Leases?	J. H. Day	Dec.	169
Reserves.	Nomograms Make Reservoir Estimates Quick and Easy.	Keith D. Sheppard	July	149
Reservoir Engineering.	Formation Evaluation—Is It Worthwhile?—Harold T. Wright and L. D. Woodly, Jr.		Mar.	154
	Reservoir Scientists Seek Answers to Fracturing Phenomena		May	178
	What to Expect From Elliptical Fractures.	Paul B. Crawford and Denton R. Wieland	May	182
	Put Your Stored Gas to Work . . . at a Profit.	A. B. Cook, R. H. Coulter, Jr., G. B. Spencer, T. M. Chin, and W. C. Elliott, Jr.	July	135
	Nomographs Make Reservoir Estimates Quick and Easy.	Keith D. Sheppard	July	149
San Juan Basin.	What Fracturing Has Done for San Juan Basin.	B. C. Taylor	May	164
Secondary Recovery (Also see Gas Injection and Water Flooding.)	Fluid Injection Expands U. S. Oil Resources.	L. J. Logan	July	46
Storage.	How Anchor Recovers 97% of LPG Stored Underground.	Stuart G. Branyan	Feb. 1	147
	Put Your Stored Gas to Work . . . at Profit.	A. B. Cook, R. H. Coulter, Jr., G. B. Spencer, T. M. Chin, and W. C. Elliott, Jr.	July	135
Sucker Rods.	What to Do About Sucker Rod Failures.	A. A. Hardy	Feb. 1	129
Testing.	Your Well's Minimum Rate of Flow.	G. P. Colinos	Nov.	171
Tracers.	How You Can Follow Your Flood.	James M. Bird and John C. Dempsey	Aug. 1	152
Tubing.	How to Care for and Run Tubing.	R. P. Stoup	July	145
	Effect of Tubing Size on Disposal Well May Be More Than You Think.	F. M. Carroll and C. H. Calhoun	Nov.	182
	Why Not Use a Tubing Gun? (An Interview with	G. H. Tausch)	Dec.	178
Water Flooding.	Application of Organic Inhibitors in Water-Flooding.	J. B. Robinson	Feb. 1	156
	Standardization of Bacteriological Testing.	K. E. Anderson	Mar.	176
	Uranium from Oil Flood Waters.	Anthony Gibbon	May	62
	Revival in the Osage		Aug. 1	41
	Growing Oil Use To Spur Development.	Elgar F. Bullard	Aug. 1	62
	Good Engineering Pays Off In Osage County Water-Flood.	J. D. Walters	Aug. 1	140
	How You Can Follow Your Flood.	James M. Bird and John C. Dempsey	Aug. 1	152
	How Important is Water-Flooding?	Albert E. Sweeney	Sept.	173
	Evaluation of Water-Flooding Prospects	Paul J. Shanor	Sept.	174
	More Oil from Water-Flooding?	Dr. H. G. Botset	Sept.	176
	Hot Water Injection Increases Water Input Rates.	J. N. Breston and B. R. Pearman	Sept.	186
	Have You Tried a Water-Flood Detergent?	H. N. Dunning, R. T. Johansen, C. J. Walker, J. P. Powell, and H. W. Watkins	Sept.	196
	Water-Flood . . . From the Ground Up.	William H. McPhail	Sept.	206
	Some Tips on Diatomite Filters.	G. R. Bell and T. M. Jackson, Jr.	Sept.	216
	Preventing Seepage in Open-Type Ponds.	Al Gaston	Sept.	224
	What Injection Pump Fits Your Operation?	George C. Logan	Sept.	233
	How Do You Solve Your Water-Flood Problems?	Anthony Gibbon	Oct.	264
	How to Identify Clay Minerals . . . and Why.	John F. Noonan	Dec.	186
Well Logging (See Drilling Articles).				
Workovers.	Old Faithful Flows Again.	Anthony Gibbon	Oct.	Ca...
Wells Producing (See Economic Articles).				
Wells Producing (See Economic Articles).				

PRODUCTION HINTS

Title	Issue	Page
Shop-Made Folding Ramps Speed Tractor Loading	Jan.	206
Bumper-Trailer Hitch from Scrap	Jan.	206
as Brace Pulling Unit	Jan.	208
Mount Bull's Eye to Save Field Signs from Hunters	Jan.	208
Mercury Swith Shuts Down Engine	Jan.	210
Elevated Chemical Feeder Aids Loading, Adjustment	Jan.	212
Increase Sample Sizes With Shop-Made Apparatus	Jan.	212
Casing Valve Stem Extensions Ease Operations	Jan.	215
Large Diameter Rollers East Low-Boy Loading	Feb. 1	188
Heater Connections on Temporary Tanks	Feb. 1	188
Hooks Aid in Lifting Casing Head Flange	Feb. 1	190
Use Pipe and Metal Plate To Make Small Line Anchor	Feb. 1	190
Tubing Replaces One Gang On High-Pressure Well	Feb. 1	191
Build Doghouse around Heater-Treater	Feb. 1	192
Extend Pipe Valve Stem For Waist High Operation	Feb. 1	192
Tank Battery Entrance Can Be Made from Scrap	Feb. 15	200
Tie-Down Method Fits Many Units	Feb. 15	200
Fence Protects Platform at Duck Lake	Feb. 15	202
Salt Water Disposal Pump Is Part of Pumping Unit	Feb. 15	202
Use Portable Pumping Unit To Test Wildcat Wells	Feb. 15	204
By-Pass System Provides Fine Flow Adjustment	Feb. 15	204
Self-Installed Trunk Light Has Many Uses in the Field	Mar.	222
Convenient Flexible Engine Cradle in Shop	Mar.	222
Making Fishing Pole Jib for Pole Truck	Mar.	222
Simple Gauge Protects Low Installations	Mar.	224
Use Producing Well For Salt Water Disposal	Mar.	224
Removable Pipe Rack Adjusts to Any Position	Mar.	225
Rig Inexpensive Water Pump for Shallow Gas Wells	Mar.	226
Acces-Ide Tool Rack Can be Added to Truck	Mar.	228
Gateless Enclosure Eases Well Site Fencing Problem	Mar.	228
Unbolt-a-Hitch Ramp To Load Tractor Quickly	Mar.	231
Funnel Lubricating Chemicals into Casing	Mar.	232
Pipe Protects Line at Creek Crossing	April	238
Hinged Floor Extension Speeds Wells Servicing	April	238
Make Coupon Post from Four-Way Tee	April	238
Tire Rim Speeds Cable Spooling	April	241
Make Good Grinder Stand From Old Brake Drum	April	242
Tank Topping Unnecessary With Simple Connection	April	242
Inverted Box Protects Pumping Motor from Rain	April	244
Simple Hookup Bleeds Salt Water from Tank	April	244
Tire Frame-Made Stands To Replace Jack in Shop	April	245
Pumping Unit Foundation Is Moved, Altered Easily	April	246
Simple Locking Devices Protect Against Fuel Thievery	May	244
Make Maintenance Shop of Used Pipe	May	246
Weld Barrel Rack to Side of Pickup	May	246
Signs In Use of Paint Can Save Time, Reduce Costs	May	249
Use Steel Bars to Make Inside Lock for Shop Doors	May	249
Gin Poles Keeps Small Pipe Handy	May	250
Farm Gas Provides Hose Storage in Shop	May	250
Make Inhibitor Injection System in Shop	May	251
Pipe Mixing Pot for Corrosion Inhibitor	May	252
Metal Ring Eases Lock Nut Removal	May	252
Mount These Tanks On Skid to Cut Moving Costs	June	299
Install Spring Balancer to Eliminate Lifting These Heavy Impact Wrenches	June	299
Attach All-Steel Bench To Rear of Truck Frame	June	300
Pole Wrench for Tongs To Eliminate Bottleneck	June	300
Weld a Tie-Down Handle On Front End of Truck	June	300
Build a Pipe Rack to Store Drums	June	302
Install Seat Belts for Hazardous Driving	June	302
Attach a Hook to End of Tape Measure	June	304
Build Water Can Holder From Salvaged Brake Drum	June	304

Title	Issue	Page
Combination Devise Aids Field Operations	July	204
Make Safety Elevator Of Sucker Rods, Plate	July	204
Movable Standpipe Controls Drain	July	206
Use of Shear Relief Valve Prevents Casing Damage	July	206
Use Radiator as Heater To Shake Out Base Oil	July	206
Build Inexpensive Unit To Aid Inhibitor Injection	July	209
Shop-Made Surge Tank Saves Stuffing Box	July	209
Simple Lock Safeguards Tool Shed	July	210
Make Temporary Jig From Welded Pipe Rings	July	210
Centrifuge Shield Protects Operator	July	212
Altered Rod Wrench Speeds Operation	July	212
Empty Filters With Horizontal Lever	Aug. 1	187
Install Spray in Tank To Reduce Time in Cleaning	Aug. 1	187
Durable Screen Protects Water Meter	Aug. 1	190
Add Time and Safety With Flare Burner	Aug. 1	190
Portable A-Frame Speeds Bearing Maintenance	Aug. 1	191
Speed Recorder Hookup with Flexible Hose	Aug. 1	192
Maintenance Platform Promotes Safety	Aug. 1	192
Speed Valve Seat Removal With Shop-Made Tool	Aug. 1	192
Factor Table Reduces Test Calculations	Aug. 1	195
Turn Fly Wheel With Small Gas Engine	Sept.	260
Set Up Manifold Assembly In Shop to Save Time	Sept.	260
Carry Small Tanks Under Truck Bed	Sept.	262
Add Stand and Shelf To Centrifuge Tank	Sept.	262
Corner Lightening Rods Simplify Tank Protection	Sept.	264
Emergency Surge Tank Helps Water Pumping	Sept.	264
Construct Pipe Suports In Assembly-Line Fashion	Sept.	264
Lubricate Polished Rods With New Reservoir	Sept.	266
Make Barge Safety Railings Removable	Oct.	218
Collect Waste, Scraps In Five-Gallon Can	Oct.	218
Corner Post Bull Plugs Ease Wellhead Work	Oct.	220
Pumping Unit Guard Eliminates Accidents	Oct.	222
Protect Flow Line Valve From Possible Rupture	Oct.	222
Close Reservoir System To Keep Solvent Clean	Oct.	224
Spike Telephone Guy Lines To Ward Off Livestock	Oct.	224
Weld Light In Stack To Warm Pumping Unit	Oct.	224
Adjust Pipe Table Legs With Couplings on Bottom	Oct.	225
Hold Engine Hood Side Panels With Chains	Nov.	233
Help Small Pipe Lines Jump an Underpass	Nov.	233
Fire Extinguisher Holder Made From Old Pipe	Nov.	238
Inspect Christmas Trees With Portable Frame	Nov.	241
Diesel Air Horns Warn Of Lubrication Failures	Nov.	242
Aid Tubing Collar Removal With Modified Wrenches	Nov.	243
Better Light Installation Promotes Firebox Safety	Nov.	245
Cover Firebox Opening With Round Wooden Plug	Nov.	245
Weld Flare Container To Front Truck Bumper	Nov.	246
Help Pipe Lines Support Themselves	Nov.	251
Stop Manual Tank Bleeding Without Using Gun Barrel	Nov.	251
Make Set of Hinges From Chain Link	Nov.	252
Carry Choke Beans In Shopmade Box	Nov.	253
Make Disposal Traps With Welded Plates	Nov.	253
Separator Relief Valve Tested from Ground	Nov.	253
Build a Simple Bridge For Rainy Weather	Nov.	257
Make Wellhead Cover Of Sheet Steel, Old Pipe	Nov.	257
Install a Prop for Tool Box Lid	Dec.	234
Attach Simple Ladder To Separators, Treaters	Dec.	234
Sucker Rods and Scraper Clean Salt Water Lines	Dec.	237
Welding Truck Equipped To Meet All Needs	Dec.	238
Protect Engine Panels With Shopmade Pipe Rack	Dec.	238
Lift Fragile Objects With Chain and Hook	Dec.	241
Handle Extension Puts Valve Within Reach	Dec.	241

Why Wait For A "Pass-Along" Copy?

Take advantage of the vast amount of engineering-operating material WORLD OIL regularly brings you.

Order a personal subscription today. The rates are reasonable—just $2 for 1 year . . . $3 for 2 years . . . or $4 for 3 years. And . . . if you prefer . . . we'll mail your monthly copies to your home address.

Send your order to:

WORLD OIL
P. O. Box 2608
Houston 1, Texas